Seat No.						Set	Ρ	
	B.C.A. (Semester - I) (New) (CBCS) Examination Oct/Nov-2019							
Day & Time:	Date: Th 03:00 PN	hursday, 07-1 M To 05:00 Pl	1-2019 M			Max. Marks	: 40	
Instru	ictions:	1) All questior 2) Figures to t	is are compulsory. he right indicate full i	mark	ζS.			
Q.1	Fill in th 1) Na a) c)	e blanks by o chiketa waited dancing meditating	choosing correct all d for the God of Deat	t ern a th fo b) d)	atives given below. r three days by reading singing		08	
	2) a) c)	is on scre Making a Liv Kid Auto Ra	en person by Charlie ving ces at venice	e Ch b) d)	aplin. The Tramp None of the above			
	3) In a) c)	which year dio 2016 2013	d Shanti Tigga passe	d av b) d)	vay? 2005 2014			
	4) Go a) c)	od of Death gr four three	anted boons.	b) d)	two All			
	5) I fii a) c)	nd no peace, war sorrow	and all my is c	done b) d)	work happiness			
	6) To a) c)	comprehend urgent poor	a nector, Requires _	b) d)	_ need. sorest none of the above			
	7) a) c)	is a nami pronoun verb	ng word.	b) d)	noun Adverb			
	8) I w a) c)	ant to buy a The	laptop next week	k. b) d)	an All			
Q.2	 A) Ans 1) 2) 3) 4) 5) 6) 	swer the follo Describe the What's so s Write about What is the What is the What is nou	wing questions. (A e makers of Charlie C pecial about Shanti T boons given by God central idea of the po theme of the poem s n? Describe its types	ny F Chap igga of d bem ucce	Four) Ilin's first film. It being a Jawan in the eath to Nachiketa. "I Find No Peace"? Sess is counted sweetes	army? st?	12	
Q.3	Answer 1)	any one of th What is 'M' :	ne following questic approach?	ons.			10	
	2)	How do you Computer L	communicate with p	OR rinci	pal regarding problem	s in		
Q.4	What is o	communicatio	n? Write communica	tion	process in details.		10	

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Seat No.			Set	Ρ
	В.0	C.A. (Semester - I) (Old) (CBCS) Examination Oct/Nov-	2019	
Day 8 Time:	C Date 03:00	e: Saturday, 09-11-2019 M 0 PM To 05:30 PM	ax. Marks	: 70
Instru	uction	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.		
Q.1	Fill ir	n the blanks by choosing correct alternatives given below.		14
	1)	The brain of any computer system is a) ALU b) Memory c) CPU d) Control unit		
	2)	The language that the computer can understand and execute is ca	lled	
		a)Machine languageb)Application softwarec)System programd)None of the above		
	3)	Actual execution of instructions in a computer takes place in a) ALU b) Control Unit c) Storage unit d) None of the above	. .	
	4)	is used as a primary storage device. a) Magnetic tape b) PROM c) Floppy disk d) None of the above		
	5)	A translator is best described asa) An Application softwareb) A system softwarec) A hardwared) None of the above		
	6)	One thousand bytes represent aa) Megabyteb) Gigabytec) Kilobyted) None of the above		
	7)	Which of the following is a computer code? a) EPROM b) JAVA c) EBCDIC d) None of the above		
	8)	The number system that we use in our day to day life is called the result of System a) Octal b) Binary c) hexadecimal d) Decimal	number	
	9)	$\begin{array}{llllllllllllllllllllllllllllllllllll$		
	10)	Light pen and joystick area) Algorithmb) Input devicesc) Output devicesd) Portals		
	11)	FORTRAN isa) File Translationb) Format Translationc) Formula Translationd) Floppy Translation		

	12)	The capacity of 3.5 inch floppy disk is a) 1.40 MB b) 1.44 GB c) 1.40 GB d) 1.44 MB	
	13)	The output quality of a printer is measured by a) CPS b) PPM c) LPM d) DPI	
	14)	The task of performing operations like arithmetic and logical operations is called a) Processing b) Storing c) Editing d) Sorting	
Q.2	A)	 Answer the following questions. (Any Four) 1) What is Data and Information? 2) What are the basic operations of Computer? 3) Give the List of computer applications. 4) What is a volatile and non-volatile memory? 5) What is Firmware? 	08
	B)	 Write Notes on (Any Two) 1) Motherboard 2) Digitizer 3) Internet 	06
Q.3	A)	 Answer the following questions. (Any Two) 1) What is software? Explain different types of system software. 2) Explain working of dot matrix printer with diagram. 3) Write the steps for convert Binary to Decimal number system with example. 	08
	B)	 Answer the following questions. (Any One) 1) Convert the following number:- i) (486)₁₀=(?)₂ ii) (AEB)₁₆ =(?)₂ iii) (111010)₂ =(?)₁₀ 2) What is Periodic backup? How to protect from virus? 	06
Q.4	A)	 Answer the following questions. (Any Two) 1) Explain hard disk with suitable diagram. 2) Write the different steps for sending E-mail to your friend? 3) What is plotter? Explain different types of plotter. 	10
	B)	 Answer the following questions. (Any One) 1) Explain different types of viruses. 2) Write good characteristics of computer languages? 	04
Q.5	Ans a) b) c)	wer the following questions. (Any Two) What is computer? Explain block diagram of computer? What is scanner? Explain types of scanner with diagram. Explain different types of computer.	14

Seat No.			Set	Ρ				
	B.C.A. (Semester - I) (Old) (CBCS) Examination Oct/Nov-2019 Science							
Day & Time:	Date 03:00	BASICS OF 'C' PROGRAMMING e: Wednesday, 13-11-2019 0 PM To 05:30 PM	Max. Marks	: 70				
Instru	nstructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks.							
Q.1	Fill ir 1)	n the blanks by choosing correct alternatives given below.Who is father of C Language?a) Bjarne Stroustrupb) James A. Goslingc) Dennis Ritchied) Dr. E. F. Codd		14				
:	2)	Which of the following operator takes only integer operands? a) + b) * c) / d) %						
	3)	Which of the following operator used as Ternary Operatora) <=						
	4)	is compulsory section.a) main()b) documentation sectionc) link sectiond) None of these						
	5)	 The function scanf() returns a) The actual values read for each argument b) 1 c) The number of successful read input values d) 0 						
	6)	An array elements are always stored in memory locations.a) Sequentialb) Randomc) Sequential and Randomd) None of the above						
	7)	All keywords in C are ina) Upper Case lettersb) Lower Case lettersc) Camel Case lettersd) None of these						
	8)	Which of the following are not unary operators in C? a) ! b) Sizeof c) ~ d) &&						
	9)	Which of the following special symbol allowed in a variable namea) * (asterisk)b) (pipeline)c) - (hyphen)d) _ (underscore)	?					
	10)	What is the associativity of an Operatora) Right to leftb) No Associativityc) Left to rightd) None of these						

Page 1 of 3

- 11) A Variable can not start with _____.
 - a) An alphabet
 - b) A number
 - c) A special symbol other than underscore
 - d) b) and c) both
- 12) What is the output of this C code? #include <stdio.h>

void main()

- a) +3 b) -2 c) +2 d) -3
- 13) What is the output of this C code?#include <stdio.h>

int main()

{

c)

int i = 10, j = 3, k = 3; printf("%d %d ", i, j, k);

prinu (760 760 , 1, j, K),

- a) Compile time errorb) 10 3 3
 - 10 3 some garbage value d) 10 3
- 14) Which of the following is not an arithmetic operation?
 - a) $a^*=10;$ b) a/=10;c) a!=10; d) a%=10;

Q.2 A) Answer the following questions. (Any Four)

- 1) What are the purposes of goto statement?
- 2) Define algorithm.
- 3) Write the syntax of printf () function.
- 4) List out rules to declare variable.
- 5) Syntax of do-while loop.

```
B) Write Notes on (Any Two)
```

- 1) Explain any two storage Classes.
- 2) Explain different steps to solve the problem.
- 3) Write a program in C addition of two numbers.

Q.3 A) Answer the following questions. (Any Two)

- 1) Explain local & global variable.
- 2) Explain advantages & disadvantages of algorithm. Write algorithm of minimum of two numbers.
- 3) Write a program to display number is even or odd.

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B) Answer the following questions. (Any One) 1) What is operator? Explain its types.

2) Write a program in C to compute the sum of digits of a given numbers by using function.

Q.4 A) Answer the following questions. (Any Two)

- 1) What is Array? Explain one and two Dimension of array in details.
- 2) What is Data types? Explain all primitive data types in detail.
- 3) Write a program in C to print following pattern.
 - * ** *** ****

B) Answer the following questions. (Any One)

- 1) Explain the term 'recursion'.
- 2) Explain structure of 'C' program in details.

Q.5 Answer the following questions. (Any Two)

- a) What is Flow Chart? Explain all flow chart symbols.
- b) What is function? Explain inbuilt and user defined function with example.
- c) Write a program in c to calculate addition of two matrixes.



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			SLR-DR-12
Seat No.			Set P
	В.0	C.A. (Semester - I) (Old) (CBCS) Examination FINANCIAL ACCOUNTING WITH TAL	Oct/Nov-2019 LY
Day & Time:	& Date 03:00	e: Friday, 15-11-2019 0 PM To 05:30 PM	Max. Marks: 70
Instru	uction	 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Use soundless calculator if necessary. 	
Q.1	Fill ir 1)	n the blanks by choosing correct alternatives given b Straight line method of depreciation is also called as a) Original Cost b) Equal installr c) Fixed Installment d) All of above	Delow. 14 method. ment
	2)	Solapur university A/c type of account.a) Real accountb) Personal A/cc) Nominal A/cd) None of these	e
	3)	LIFO Stands fora) First in First outb) Last in First outc) Last in Last outd) First in Last out	out
	4)	Expenditure incurred on the purchase of fixed assets isa)Revenueb)Capitalc)Deferred revenued)None of these	expenditure.
	5)	Discount is not recorded in the books of account a) Cash b) Trade c) Quantity d) None of thes	e
	6)	is explanation for the journal entries passed.a) Voucherb) Transactionc) Narrationd) Invoice	
	7)	The books in which journal is divided is called asa) Ledgerb) Subsidiary bookc) Journald) Cash book	ook
	8)	In Tally for Receipt Voucher Key used. a) F6 b) F7 c) F8 d) F9	
	9)	Which voucher type is used to transfer amount from onea) Paymentb) Receiptc) Contrad) Post-dated	e bank to another?
	10)	Which shortcut key is pressed for voucher entry or delea) Alt+Ab) Alt+Cc) Alt+Xd) Alt+D	ting a ledger?
	11)	Which shortcut key used to view configure in tally? a) F10 b) F11 c) F12 d) Alt + F9	

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		SLK-DR
12)	To change the date shortcut key i a) Alt + F2 c) F2	s used b) Alt + F3 d) F1
13)	TAN Stands for a) Tax Account Number c) None of these	b) Tax Assessment Numberd) Tax Assignment Number
14)	BOM Stands for a) Bill of Machine c) Bill of Material	b) Bill Of Manpowerd) None of these
A)	 Answer the following (Any Four 1) Ledger 2) Trail Balance 3) Narration 4) Gross Profit 5) Godown)
B)	 Write Notes on (Any Two) 1) Explain the Definition and Ru 2) Explain the Definition of Book 3) Explain the concept of Sales 	les of Real A/c < keeping & Accountancy order process.
A)	 Answer the following (Any Two) 1) Give the objects of Book keep 2) Benefits of double entry system 3) Explain the features of Tally. 	ping. em.
В)	 Answer the following (Any One) 1) A Company Ltd. Purchased 2010 & spent of Rs.3000/- another machinery on 1st Oc to charges the depreciation of 31st March every year. Prepare machinery account for 2) Explain different types of you 	a machinery of Rs.47000/- on 1 st April it's on installation. Company purchased t 2010 for Rs.25000/- Company decided 0 10% p.a. under straight line method on or the year 2010-11, 2011-12 & 2012-13 cher in Tally.
A)	 Answer the following (Any Two) 1) Explain the Accounting Conce 2) Write short note on Bill of Mate 3) Write short note on Profit and 	ept. erial. Loss A/c
B)	 Answer the following (Any One) 1) Define Nominal Account with 2) Types of MIS Reports. 	Rule & suitable examples.
Ans a)	swer the following (Any Two) Shri Ram Trader, Solapur wants to month January 2017, on the basis	o prepare a store Ledger account for the FIFO method.

- 1)
- 2)

Q.2

Q.3

Q.4

Q.5

- 1st Jan. purchased 1500 units @Rs.5 per unit.
 3rd Jan issued 1000 units.
 8th Jan. purchased 1000 units @ Rs 5.50 per unit.
 15th Jan, issued 800 units.
 21st Jan, purchased 1000 units @ Rs.5.00 per units.
 31st Jan. issued 1500 units. 3)
- 4)
- 5)
- 6)

- **b)** Journalize the following transaction in the books of Mr. A for the month of July 2017.
 - 1) Started business with cash of Rs.25000/-
 - 2) Cash sales Rs.5000/-
 - 3) Goods purchased of Rs.4500/- for Cash.
 - 4) Goods distributed as a free sample of Rs.350/-
 - 5) Opened bank account by depositing of Rs.1000/-
 - 6) Paid salary Rs,13000/-
 - 7) Paid office rent by cheque of Rs.2600/-
- c) Write short note on e-TDS in Tally ERP 9.

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Seat No.		Set	Ρ
	В.(C.A. (Semester - I) (Old) (CBCS) Examination Oct/Nov-2019 COMMUNICATION SKILLS	
Day 8 Time:	& Date 03:00	e: Monday, 18-11-2019 Max. Marks: 0 PM To 05:30 PM	70
Instru	uction	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Fill ir 1)	In the blanks by choosing correct alternatives given below is the person who transmits the message.a) Driverb) Senderc) Receiverd) Mediator	14
	2)	Environmental barriers are same as noise.a) Physiologicalb) Psychologicalc) Physicald) Sociological	
	3)	Letter, E-mail, Fax, Telephone are examples of a) Channel b) Encoding c) Feedback d) Message	
	4)	Find the odd man out from the following aspects of paralanguagea) Volumeb) Pitchc) toned) writing speed	
	5)	communication includes tone of voice body language, facial expressions etc. a) non verbal b) verbal c) letter d) notice	
	6)	Upward Communication flows from by way of complains,suggestions etc.a) competitionb) customersc) lower leveld) client	
	7)	 A Meeting without agenda, is the meeting that lacks a) Proper Feedback b) Structure c) a) and b) d) None of these 	
	8)	 What is essential to ensure conciseness of business communication? a) avoids multiple repetition b) must be relevant c) must not contain long expression d) none of these 	
	9)	Communication without words known asa) verbalb) horizontalc) grapevined) non-verbal	
	10)	 FIR is a) Formal Investigation Report b) First Investigation Report c) Formal Informational Reporting 	

d) None of these

- 11) Body of a letter is divided into _____ parts.
 - a) 1 b) 2
 - c) 3 d) 4
- 12) When the accounting manager communicates to the purchasing manager the dollars available for purchases in the current month, this is an example of _____.
 - a) Upward Communication
- b) downward Communicationd) grapevine Communication
- c) Horizontal Communication
- 13) All are the examples of the media of two way communication except
 - a) public meeting b) padyatra
 - c) streetplays d) procession and rallies
- 14) Which of the following is not a successful communicatior?
 - a) One who presents material in a precise and clear way
 - b) One who is able to adapt himself according to the language of the communicate
 - c) One who knows a lot but is somewhat reserve in his attitude
 - d) One who sometimes becomes informal before the receiver and develops rapport

Q.2 A) Explain the following in Short. (Any Four)

- 1) Salutation
- 2) Abbreviations
- 3) Voice email
- 4) Non-routine reports
- 5) Preciseness
- 6) You Attitude
- 7) Barriers to communication

B) Write the answer of following question.(Any Two)

- 1) Explain Socio-psychological Barriers to communication.
- 2) Explain advantages of Grapevine communication.
- 3) Explain Written aspects of Non-verbal Communication.

Q.3 A) Answer the following question.(Any two)

- 1) Explain Minutes of Meetings. Write a agenda for the Meeting to be conducted to discuss annual planning of the advertisement department.
- 2) Explain objectives of upward Communication.
- 3) Write a resume for the post of teacher of science at higher secondary school.

B) Answer the following question.(Any One)

- 1) Define Communication. Explain the elements of communication and importance of the same in communication process.
- 2) Write an Inquiry Letter to a "Reliable Life insurance company" about group insurance schemes and policies for your company employees.

Q.4 A) Answer the following question.(Any Two)

- 1) Explain different parts of letter.
- 2) Define Meeting. Explain types of Meetings.
- 3) Explain different Modern ways of Communication.

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- Define reports. Explain any 2 types of reports. 1)
- Explain types of Communication. 2)

Q.5 Write short note on

- Overcoming Barriers of communication 1)
- Planning of Letter 2)
- 3)
- Steps in writing report 7 C's of Communication 4)

04

Seat		Set	Ρ
NO.	B.0	C.A. (Semester - I) (Old) (CBCS) Examination Oct/Nov-2019	
		DISCRETE MATHEMATICS	
Day & Time:	Date 03:00	: Wednesday, 20-11-2019 Max. Marks:) PM To 05:30 PM	70
Instru	iction	 s: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Use of calculator is allowed. 	
Q.1	Fill ir	the blanks by choosing correct alternatives given below.	14
	1)	If aRb & bRa \rightarrow a = b, then the relation R is called as a) antisymmetric b) symmetric c) reflexive d) transitive	
	2)	If $F(x) = (x - 1) (x - 2) (x - 3)$ then $f(4) = $ a) 6 b) 12 c) 24 d) none of these	
	3)	If $A \cap B = \emptyset$ then set $A \& B$ are sets.a) Equalb) Disjointc) Both a & bd) None of these	
	4)	If $A = \{1, 2, 3, 5, 6\}$ then $ A = $ a) 4b) 5c) 6d) 7	
	5)	If A = {, a, b, c}, B = {3, 4} then $ A \times B = $ a) 8 b) 6 c) 4 d) 2	
	6)	A Graph containing No elements is known asa) Regular Graphb) Null Graphc) Simple Graphd) Bipartite Graph	
	7)	If A, B & C are subsets of a universal set \cup then "Distributive property" is	
		a) $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$ b) $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$ c) Both a & b d) None of these	
	8)	If A & B are two subsets of universal set \cup . Then "A \oplus B" is known as	
		 a) Union of set A & B b) Difference of set A & B c) Intersection of set A & B d) Symmetric Difference of set A & B 	
	9)	A set having only one element is known asa) Singleton setb) Binary setc) NULL setd) Finite set	

10) $P \lor \sim P$ is _____.

c)

c)

- a) Tautology
- Contigency C)

- b) Contradiction
- d) None of these

11) Let R be a relation from the set A to the set B. Then the set of all first coordinates of the ordered pairs of R is called of R.

a) Domain

- b) Co-domain
- Range
- d) None of these
- An assertive sentence which is either true or false but not both at the same 12) time is called
 - a) proposition both a & b
- statement b) d) none of these
- If we have two set's A & B. If all the elements of the set A are in the set B 13) and at least one element of B is not in A then set A is said to be the _____ set of the set B.
 - a) Proper subset
 - Super set C)

- b) Improper subset
- d) Unique set
- A function can be represented as ____ 14)
 - Arrow Diagram b) **Tabular Form** a)
 - C) Formula Form d) All of the above

Q.2 Answer the following questions. (Any Four) A)

- If $A = \{3, 4, 6, 9, 11\}$ and $B = \{4, 9, 1, 7, 8\}$ Find $A \oplus B$. 1)
- 2) If $A = \{3, 5\}$ and $B = \{2, 4\}$ Find $A \times B$ and $B \times A$.
- Define Bipartite Graph. 3)
- State De Morgan's Law. 4)
- Define simple Graph and Null Graph. 5)

B) Answer the following questions. (Any Two)

- 1) Construct a truth table & determine whether the statement is tautology, contradiction or contigent.
 - $\sim p \rightarrow \sim (p \land q)$
- Define power set and cardinality of a set. Give example. 2)
- Graph representation by using Adjacency matrix. 3) Let $A = \{p, q, r\}, B\{a, b, c, d,\}$. Find $A \times B$ and $B \times A$. Is Cartesian product commutative?

Q.3 A) Answer the following questions. (Any Two)

Show the equivalence by preparing truth table. 1)

$$(\sim p \lor q) \equiv \sim (p \land q) \rightarrow (\sim p \lor (\sim p \lor q))$$

2) Write Incidence matrix and Adjacency matrix for given Graph.



3) Define Relation and equivalence Relation. **08**

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B) Answer the following questions. (Any One)

- 1) What is Function? Explain types of function.
 - 2) What is set? Explain union, intersection and Difference operations on set.

Q.4 A) Answer the following questions. (Any Two)

1) Let A & B are two finite sets, which are disjoint them prove that

$$|\mathbf{A} \cup \mathbf{B}| = |\mathbf{A}| + |\mathbf{B}|$$

- 2) Let $\cup = \{1, 2, 3, 4, 5, 6, 7, 8\}$ is a universal set. $A = \{1, 3, 5, 6\}$ and $B = \{2, 4, 6, 8\}$ are subsets of \cup verify that $(A \cup B)' = A' \cap B'$
- 3) If G_1 and G_2 are the given Graph's as.



Find

1)
$$G_1 \cap G_2$$

2) G₁⊕G₂

B) Answer the following questions. (Any One)

- 1) Check the validity of the following argument by using truth table. $p \leftrightarrow q$, $q \vdash p$
- 2) Let $A = \{a, b, c, d\}$. Let R be the relation defined on the set A given by R as

 $R = \{(a, a), (a, b), (a, c), (a, d), (b, a), (b, d), (c, c), (d, d)\}$ Draw Diagraph of relation R. Find In-degree & out degree for all vertices.

Q.5 Answer the following questions. (Any Two)

- 1) Let $R = \{(a, a), (a, b), (b, c), (a, c), (c, a), (c, b)\}$ be a relation on the set $A = \{a, b, c\}$ Find the transitive closure of R using warshall's Algorithm.
- **2)** Let $\cup = \{1, 2, 3, 4, 5, 6, 7, 8, \}$

 $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8\}$ and $C = \{3, 4, 5, 6\}$ Find.

- 1) $(A \cup B)'$
- 2) $(A \cap C)'$
- 3) B C
- 4) A ∩ B
- 5) A'
- 3) The students in a hostel were asked whether they had a TV set or a computer in their rooms. The result showed that 650 students had a TV set, 150 did not have TV set, 175 had a computer and 50 had neither a TV set nor a computer. Find the number of students who
 - 1) live in the Hostel
 - 2) have both a TV set and a computer.

04

	I	B.C.A. (Semester - II) (CBCS) Examination Oct/Nov-20 ADVANCED PROGRAMMING IN C	19
Day & Time:	& Date 03:00	te: Friday, 08-11-2019 M 00 PM To 05:30 PM	ax. Marks: 70
Instru	uction	ons: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Fill in 1)	 in the blanks by choosing correct alternatives given below. We can assess structure members using operators. a) . b) -> c) Both a and b d) None of these 	14
	2)	A preprocessor statement starts with symbol. a) & b) % c) # d) @	
	3)	Passing parameters to function is called as "command line"arguments.a) Main()b) getch()c) clrscr()d) getchar()	
	4)	In case of call by,operation performed on formal parameter on actual parameter a) Value b) Pointer c) Address d) Both b and c	affects
	5)	String ends with character. a) # b) \0 c) \$ d) .	
	6)	All the members of has their own separate memory locationa) Structureb) Unionc) Arrayd) Both b & c	
	7)	lf there is any error while opening a file, fopen will return a) Positive Value b) EOF c) NULL d) Negative value	
	8)	mode tells compiler to open a file in append mode. a) "r" b) "w" c) "r+" d) "a"	
	9)	For string handling functions header file is used. a) string.h b) dynamic.h c) alloc.h d) runtime.h	
	10)	is a variable which holds memory location of another variabl a) Array b) Structure c) Union d) Pointer	е.
	11)	Size of a union is determined by size of the a) First member in the union b) Last member in the unio	n

c) Biggest member in the union d) Sum of the sizes of all members

SLR-DR-15

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	12)	Which of the following is a Not 'C' preprocessor? a) #ifdef b) #define c) #opdif	
	13)	 a) struct b) union b) both a & b c) both a & b 	
	14)	directive is used to declare constants in program. a) #include b) #define c) #const d) None	
Q.2	A)	 Answer the following questions. (Any Four) 1) What is Preprocessor? 2) How pointer is declared and initialized? 3) What is random access and sequential access of file? 4) What is macro? 5) Write difference between fputc() and fprintf(). 	08
	B)	 Write Notes. (Any Two) 1) Table of string 2) Self referential structure 3) Chain of pointer 	06
Q.3	A)	 Answer the following questions. (Any Two) Write a short note on command line argument. Explain strlwr() and strcmp() string handling functions with example. What is 'nested structure'? Explain with example? 	08
	B)	 Answer the following questions. (Any One) 1) Explain pass by value and pass by pointer concept with example. 2) Explain malloc() &calloc() function with example. 	06
Q.4	A)	 Answer the following questions. (Any Two) 1) Write a program to traverse entire string with its pointer. 2) Explain pointer to array concept with example. 3) Write a program that read entire data from file having name "biodata.doc" 	10
	B)	 Answer the following questions. (Any One) 1) Write a short note on #error directives. 2) What is 'typedef'? Explain with example. 	04
Q.5	Ans 1) 2)	wer the following questions. (Any Two) What is difference between structure and Union? What are the types of macros? Explain with example.	14

3) Write a program to accept and display 5 students record.

Seat No.						Set	Ρ
	E	B.C.A. (Semes	ster – II) (CBCS)	Exa	mination Oct/Nov-201	9	
Day 8 Time:	Date 03:00	: Monday, 11-11) PM To 05:30 PI	-2019 M	NOL	Ma	x. Marks	: 70
Instru	iction	s: 1) All question 2) Figures to t	ns are compulsory. the right indicate full	marl	<s.< th=""><th></th><th></th></s.<>		
Q.1	Fill ir 1)	a) border c) border-style	choosing correct al defines the space be	l tern etwee b) d)	atives given below. en cells in a table. border-spacing none of these		14
	2)	What are the me a) Show() c) Toggle()	ethods used to provid	de ef b) d)	fects? Hide() All of these		
	3)	How can you ma a) OL c) UL	ake a list that lists the	e iter b) d)	ns with numbers? DL List		
	4)	What is the corre a) Background b) Img src="ba c) Body backg d) bgcolor = "b	ect HTML for insertir l img="background.g ickground.gif" backg round= "background packground.gif"	ng a lif" roun l.gif"	backgound image? d∕		
	5)	In css what does a) Selector c) Property	s "font-size" can be c	calleo b) d)	l as Rule Property-Name		
	6)	Which of the foll where it is define a) global varial c) Both of the	owing type of variab ed in Java script? ble above	le is b) d)	visible only within a functio local variable None of these above	n	
	7)	In which year jQ a) 2001 c) 2005	uery developed?	b) d)	2004 2006		
	8)	 Which of the foll a) System.out. b) print("Hello" c) document.w d) response.w 	owing is correct to w println("Hello World" World") /rite("Hello World") rite("Hello World")	vrite ')	Hello World" on the web pa	age?	
	9)	ls jQuery a libra a) Server scrip c) Both of thes	ry for client scripting oting se	or so b) d)	erver scripting? Client scripting None		
	10)	In HTML tables a) tag c) tag	table header is defin	ed b b) d)	y tag <t head=""> tag</t>		

08

06

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14

- 11) Which jQuery method is used to hide selected elements?
 - a) hidden()
 - c) visible(false)
- b) hide()d) display(none)
- 12) Which of the following function of Array object sorts the elements of an array?
 - a) toSource() b) sort()
 - c) toString() d) unshift()
- 13) The following elements <header>, <footer>, <article>, <section> are the new elements in HTML5. These elements are called _____.
 - a) Control attributes b) Semantic elements
 - c) Graphic elements d) Multimedia elements

14) What is the correct sequence of HTML tags for starting a webpage?

- a) Head, Title, HTML b) Title, Head, HTML
- c) HTML, Head, Title d) None of these

Q.2	A)	Explain the f	following in	short.	(Any Four)
-----	----	---------------	--------------	--------	------------

- 1) Singular and Paired Tag
- 2) DOCYTPE
- 3) Text Properties in CSS
- 4) Get and Post Method
- 5) DOM
- 6) JQuery Selector

B) Write the answer of following questions. (Any Two)

- 1) Explain Ordered List with Example.
- 2) Explain Media Tag in HTMI 5.
- 3) Explain Ids and Classes in CSS.

Q.3	A)	Answer the following questions. (Any Two)	08
		1) What is Image Man? Explain Creating and implementing Image Man	

- 1) What is Image Map? Explain Creating and implementing Image Map.
- 2) Explain any 4 String function in JavaScript with proper Example.
- 3) Explain types of Lists.

B) Answer the following questions. (Any One)

- 1) Write a program using javascript to validate a number accepted through a text box is a prime no. or not?
- 2) Explain Structure of HTML Document.

Q.4 A) Answer the following questions. (Any Two)

- 1) Write a Jquery script to implement animation effect on inserted image.
- 2) Explain Functions and its types in JavaScripts.
- 3) Define CSS. Explain Types of CSS.

B) Answer the following questions. (Any One)

- 1) Define JQuery. Explain Fading and Sliding Effects in Jquery.
- 2) Explain Graphics in HTML 5.

Q.5 Write short note. (Any Two)

- a) For Loop in Javascript with example
- b) Need of JQuery
- c) HTML <input> tag
- d) Events in Javascript

Day & Time: (Date: 03:00	: Thu PM	ursday, 14-11-2019 To 05:30 PM		Max. Marks:	70
Instru	ction	s: 1) 2) All questions are compulsory.) Figures to the right indicate full m	nark	S.	
Q.1 I	Fill in 1)	the The a) c)	blanks by choosing correct alto data Flow Diagram is the basic co Conceptual Physical	erna ompo b) d)	tives given below. onent of system. Logical None of these	14
2	2)	Whi you spe a) c)	ich of the following system implem want to run the old system and the cified period? Direct Parallel	enta e ne b) d)	tion approach should be used if w system at the same time for a Pilot Phased	
;	3)	The a) c)	first step in Software Developmer Preliminary Investigation System Testing	nt Lif b) d)	e Cycle is System Design System Coding	
2	4)	The a) c)	Data flow diagram (DFD) shows _ flow of data areas where they are stored	b) d)	 processes All of these	
Ę	5)	In _ the a) c)	aliases or synonyms are allo same meaning. Data Flow Diagrams Data Table	wed b) d)	l when two or more entries show Data Dictionary Decision Table	
(6)	Whi a) c)	ich of the following are the charact Organization Interdependence	erist b) d)	ics of a system? Interaction All of these	
7	7)	The a) c)	most important feature of spiral m Risk management Performance management	iode b) d)	l is Quality management Efficiency management	
8	8)	a) c)	is an agreement between syste Requirement anticipation Requirement specification	em d b) d)	eveloper & the end user. Requirement investigation Both a & c	
ę	9)	tran a) c)	is a graphical description of a s sforms the data. System diagram Data flow diagram	yste b) d)	m's data and how the process Detail flowcharts Data direction diagram	
	10)	In w a) c)	hich step of SDLC project termina Design Phase Feasibility study Phase	tion b) d)	could be done System Maintenance Phase Coding Phase	

B.C.A. (Semester - II) (CBCS) Examination Oct/Nov-2019 SOFTWARE ENGINEERING

Seat

No.

SLR-DR-17

Set

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	11)	The 'Big picture' diagram of a system is the a) Logic diagram b) Block diagram c) System flowchart d) Program flowchart				
	12)	Decision table is a combination ofa) Stubs and conditionsb) Conditions and actionsc) Input and outputd) None of these				
	13)	ensures an internal consistency of data, retrieval, maintenance and				
		stability. a) Normalization b) ER-diagram c) DFD d) None of these				
	14)	Which one of the following is not a phase of Prototyping Model? a) Quick Design b) Coding c) Prototype Refinement d) Engineer Product				
Q.2	A)	 Answer the following questions. (Any Four) 1) What is the purpose of HIPO chart? 2) What is Zero level DFD? 3) What is normalization? 4) What is flowchart? 5) Which are the types of decision table? 	08			
	B)	 Write Notes on (Any Two) 1) Characteristics of Software. 2) Elements of the system. 3) System Analysis. 	06			
		 Answer the following questions. (Any Two) 1) Draw a Decision tree and limited entry table for following case study- A Regional Transport Office (RTO) is related with registration of vehicles. Mainly the vehicles are categorized as commercial and non- commercial. If the vehicle is non-commercial and its type is two wheeler then registration charges are Rs. 100, for three wheeler Rs. 150, for four wheeler Rs.200.For commercial type of vehicles Rs. 100 is added extra in registration charges. 2) Explain Feasibility study in detail. 3) What is DED2 Write advantages of DED and explain different symbols 				
Q.3	A)	 Answer the following questions. (Any Two) Draw a Decision tree and limited entry table for following case study- A Regional Transport Office (RTO) is related with registration of vehicles. Mainly the vehicles are categorized as commercial and non- commercial. If the vehicle is non-commercial and its type is two wheeler then registration charges are Rs. 100, for three wheeler Rs. 150, for four wheeler Rs.200.For commercial type of vehicles Rs. 100 is added extra in registration charges. Explain Feasibility study in detail. What is DFD? Write advantages of DFD and explain different symbols used in DED. 	08			
Q.3	A) B)	 Answer the following questions. (Any Two) Draw a Decision tree and limited entry table for following case study- A Regional Transport Office (RTO) is related with registration of vehicles. Mainly the vehicles are categorized as commercial and non- commercial. If the vehicle is non-commercial and its type is two wheeler then registration charges are Rs. 100, for three wheeler Rs. 150, for four wheeler Rs.200.For commercial type of vehicles Rs. 100 is added extra in registration charges. Explain Feasibility study in detail. What is DFD? Write advantages of DFD and explain different symbols used in DFD. Answer the following questions. (Any One) What is System? Explain types of system in detail. 	08			
Q.3 Q.4	A) B) A)	 Answer the following questions. (Any Two) 1) Draw a Decision tree and limited entry table for following case study- A Regional Transport Office (RTO) is related with registration of vehicles. Mainly the vehicles are categorized as commercial and non- commercial. If the vehicle is non-commercial and its type is two wheeler then registration charges are Rs. 100, for three wheeler Rs. 150, for four wheeler Rs.200.For commercial type of vehicles Rs. 100 is added extra in registration charges. 2) Explain Feasibility study in detail. 3) What is DFD? Write advantages of DFD and explain different symbols used in DFD. Answer the following questions. (Any One) 1) What is System? Explain types of system in detail. 2) Explain the steps of traditional approach to implementation. Answer the following questions. (Any Two) 1) What is Data Dictionary? Explain the importance of DD. 2) Explain the various roles played by the system analyst. 3) Explain Prototyping Model in detail 	08 06 10			
Q.3 Q.4	A) B) A)	 Answer the following questions. (Any Two) 1) Draw a Decision tree and limited entry table for following case study- A Regional Transport Office (RTO) is related with registration of vehicles. Mainly the vehicles are categorized as commercial and non- commercial. If the vehicle is non-commercial and its type is two wheeler then registration charges are Rs. 100, for three wheeler Rs. 150, for four wheeler Rs.200.For commercial type of vehicles Rs. 100 is added extra in registration charges. 2) Explain Feasibility study in detail. 3) What is DFD? Write advantages of DFD and explain different symbols used in DFD. Answer the following questions. (Any One) 1) What is System? Explain types of system in detail. 2) Explain the steps of traditional approach to implementation. Answer the following questions. (Any Two) 1) What is Data Dictionary? Explain the importance of DD. 2) Explain Prototyping Model in detail. Answer the following questions. (Any One) 1) Draw an ER-diagram for College Admission System. 2) Decision input screame for Library System 	08 06 10 04			
Q.3 Q.4 Q.5	A) B) A) B)	 Answer the following questions. (Any Two) 1) Draw a Decision tree and limited entry table for following case study- A Regional Transport Office (RTO) is related with registration of vehicles. Mainly the vehicles are categorized as commercial and non- commercial. If the vehicle is non-commercial and its type is two wheeler then registration charges are Rs. 100, for three wheeler Rs. 150, for four wheeler Rs.200.For commercial type of vehicles Rs. 100 is added extra in registration charges. 2) Explain Feasibility study in detail. 3) What is DFD? Write advantages of DFD and explain different symbols used in DFD. Answer the following questions. (Any One) 1) What is System? Explain types of system in detail. 2) Explain the steps of traditional approach to implementation. Answer the following questions. (Any Two) 1) What is Data Dictionary? Explain the importance of DD. 2) Explain Prototyping Model in detail. 3) Explain Prototyping Model in detail. 4) Draw an ER-diagram for College Admission System. 2) Design input screens for Library System. 	08 06 10 04 14			
Q.3 Q.4 Q.5	A) B) A) B) Ans 1)	 Answer the following questions. (Any Two) 1) Draw a Decision tree and limited entry table for following case study- A Regional Transport Office (RTO) is related with registration of vehicles. Mainly the vehicles are categorized as commercial and non- commercial. If the vehicle is non-commercial and its type is two wheeler then registration charges are Rs. 100, for three wheeler Rs. 150, for four wheeler Rs.200.For commercial type of vehicles Rs. 100 is added extra in registration charges. 2) Explain Feasibility study in detail. 3) What is DFD? Write advantages of DFD and explain different symbols used in DFD. Answer the following questions. (Any One) 1) What is System? Explain types of system in detail. 2) Explain the steps of traditional approach to implementation. Answer the following questions. (Any Two) 1) What is Data Dictionary? Explain the importance of DD. 2) Explain Prototyping Model in detail. 3) Explain Prototyping Model in detail. 4) Draw an ER-diagram for College Admission System. 2) Design input screens for Library System. Swer the following questions. (Any Two) Define the term Entity, Attribute and Relationship. Explain types of 	08 06 10 04 14			
Q.3 Q.4 Q.5	A) B) A) B) Ans 1)	 Answer the following questions. (Any Two) 1) Draw a Decision tree and limited entry table for following case study- A Regional Transport Office (RTO) is related with registration of vehicles. Mainly the vehicles are categorized as commercial and non- commercial. If the vehicle is non-commercial and its type is two wheeler then registration charges are Rs. 100, for three wheeler Rs. 150, for four wheeler Rs.200.For commercial type of vehicles Rs. 100 is added extra in registration charges. 2) Explain Feasibility study in detail. 3) What is DFD? Write advantages of DFD and explain different symbols used in DFD. Answer the following questions. (Any One) 1) What is System? Explain types of system in detail. 2) Explain the steps of traditional approach to implementation. Answer the following questions. (Any Two) 1) What is Data Dictionary? Explain the importance of DD. 2) Explain Prototyping Model in detail. 3) Explain Prototyping Model in detail. 4) Draw an ER-diagram for College Admission System. 2) Design input screens for Library System. 5wer the following questions. (Any Two) 1) Draw an ER-diagram for College Admission System. 2) Design input screens for Library System. 	08 06 10 04 14			

3) Draw the CLD and first level DFD for Mark sheet printing system

			7						
Seat No.						Set	Ρ		
	B.C.A. (Semester - II) (CBCS) Examination Oct/Nov-2019								
Day & Time:	Date 03:00	: Saturday, 16-1) PM To 05:30 P	1-2019 M			Max. Mark	s: 70		
Instru	iction	s:1) All question 2) Figures to 3) Neat diagra	is are compulsory. the right indicate full am must be drawn w	mark here	s. ver necessary				
Q.1	Fill ir 1)	the blanks by Octal to binary a) 2 c) 1	choosing the corre encoder circuit has i	ct alt numb b) d)	ernatives given below ber of outputs. 3 4	v:	14		
	2)	In mapp a) associative c) direct	ing the address is di	videc b) d)	l into tag and index field set associative none of these	d.			
	3)	The decimal 48 a) 01001000 c) 1101	3 is equivalent to	B b) d)	CD. 1011 10				
	4)	has on (a) 8085 c) 80286	chip cache memory.	b) d)	8086 80486				
	5)	In level a) two c) four	memory hierarchy sp	olitteo b) d)	l cache is used. three none of these				
	6)	The is a a) RAM c) Register	cts as internal memo	ry of b) d)	CPU. ROM None of these				
	7)	In metho a) DMA c) interrupt dri	od CPU is does not e ven	enga(b) d)	ged in data transfer. polling None of these				
	8)	The output of _ a) OR c) EXOR	gate is high wh	nen tv b) d)	wo inputs are different. AND NOR				
	9)	Address bus of a) 8 c) 20	f 8086 Microprocess	or b) d)	bit. 16 32				
	10)	In K – map a) BCD c) gray	sequence is use	d. b) d)	binary x-3				
	11)	In Decimal to b a) NOT c) AND	inary encoder	_ gate b) d)	e is used. OR EXOR				

	12)	In common cathode display all the cathodes are connected to a) Vcc b) Vee						
		c) ground d) none of these						
	13)	Address used by programmer is called as address,						
		a) logical b) physical c) real d) none of these.						
	14)	The IC 7400Gate.a) ANDb) ORc) NORd) NAND						
Q.2	A)	 Answer the following question.(Any Four) 1) Draw three and four variavle K map? 2) Define bus. What are their types? 3) Draw the logic diagram of full adder. 4) What is counter? Give their types. 5) Explain HOLD and HLDA pin in 8086. 	08					
Q.2	B)	 Vrite Notes on (Any Two) Explain universal gates. Give the features of 8086. Compare Von Neumann and Harward memory architecture. 						
Q.3	A)	 Answer the following questions. (Any Two) 1) Explain half Adder by using K map. 2) Explain associative mapping technique. 3) Explain USB 						
Q.3	B)	 Answer the following questions. (Any One) 1) Write a note on three bit asynchronous counter. 2) Write a note on paging mechanism in virtual memory. 	06					
Q.4	A)	 Answer the following questions.(Any Two) 1) Explain polling method of data transfer. 2) Differentiate between 80286 and 80486. 3) What is memory hierarchy? Explain their types. 						
Q.4	B)	 Answer the following questions. (Any One) 1) Write a note on pipeline concept. 2) Explain decimal to binary encoder. 	04					
Q.5	Ans	Answer the following questions. (Any Two)						
	a)	Draw internal block diagram of 8086. Explain general purpose register of 8086 microprocessor.						
	b)	Explain DMA transfer technique.						

c) Explain register and memory stack.

Seat No.						Set	Ρ
	I	B.C.A. (Semest	er - II) (CBCS) E	xar	nination Oct/Nov-20)19	
Day & Time:	Date 03:00	: Tuesday, 19-11-2) PM To 05:30 PM	2019	LD	N N	Max. Marks	: 70
Instru	iction	 All questions Figures to the Use of sound Graph paper 	are compulsory. e right indicate full n dless calculator is al will be supply on re	nark Iowe eque	s. ed. st.		
Q.1	Fill ir	the blanks by ch	noosing correct alt	erna	tives given below.		14
	1)	a) Histogram c) Frequency cu	rve	b) d)	n. Ogive curve Frequency polygon		
	2)	For perfect positiv a) 1 c) -0.75	e correlation, the va	alue b) d)	of r is -1 0.75		
	3)	For distribution me a) 14 c) 18	ean is 20 & mode is	18 t b) d)	hen median is 20 None of these		
	4)	The mid-point of c a) 10 c) 14	lass 10-18 is	 b) d)	18 None of these		
	5)	The line of regress a) $Y - \overline{Y} = b_{YX} (X)$ c) $X - \overline{X} = b_{XY} (Y)$	sion of Y on X is $X - \overline{X}$) $X - \overline{Y}$)	b) d)	$\overline{Y} + \overline{Y} = b_{XY}(X + \overline{X})$ All of these		
	6)	For the given set of a) 20 c) 18	of observations 20,1	8,19 b) d)	9,20,25,23,27 mode is _ 27 None of these		
	7)	The correlation be a) Positive c) Zero	etween rainfall & pro	duc b) d)	ion of paddy is Negative Perfect		
	8)	price inde a) Laspeyre's c) Fisher's	x number is perfect	b) d)	Paasche's All of these		
	9)	Collecting the info method of	rmation from each r f collecting data.	nem	ber of the population is	called as	
		a) Samplingc) Systematic	J	b) d)	Census None of these		
	10)	A coin is tossed tv	vo times. The proba	bility	of getting at least single	e head is	
		a) 1 c) 3/4		b) d)	0 Can't say anything		

Page 1 of 3

	11)	If the upper limit of class is the lower limit of next class then classes are of type a) Inclusiveb) Exclusive	
		c) Open-end d) None of these	
	12)	If the equation of line of regression X on Y is 4X+3Y=18 then regression coefficient of it is	
		a) 3/4 b) 4/3 c) -3/4 d) 1	
	13)	If $P(A) = 0.5$, $P(B) = 0.3$ & if A,B are mutually exclusive events, Then $P(A \cap B) = $	
		c) 0.15 d) None of these	
	14)	can not be determined graphically.	
	,	a) A.M.b) Medianc) Moded) All of these	
Q.2	a)	 Answer the following questions. (Any Four) 1) Define A.M. 2) State classical definition of probability. 3) If Cov(X,Y) = 25, V(X) = 36 & V(Y) = 25 find b_{YX} 4) Find coefficient of range from following data 10,14,12,18,20,22,21 	08
		5) If $\sum p_1 = 130$, $\sum p_0 = 190 \& \sum p_1 q_1 = 200$ find appropriate price index number.	
	b)	 Write note. (Any Two) 1) Simple random sampling method 2) Merits and Demerits of range 3) Classification 	06
Q.3	a)	 Answer the following questions. (Any Two) 1) Calculate A.M. from following frequency distribution. X Z 4 6 8 10 f 3 5 7 4 2 	06
		2) Given $n = 10$, $\bar{X} = 40$, $\bar{Y} = 50 \& b_{YY} = 0.8511 \& b_{YY} = 1.2030$. Find	
		 equations of lines of regressions. 3) Define : i) Variance ii) Fishers Index number 	
	b)	Answer the following questions. (Any One)	06
		 Construct price index number by: i) Simple aggregate method ii) Simple average of price relative method from the following data 	
		$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
		2) Let n=8, $\Sigma X = 60$, $\Sigma Y = 40 \& \Sigma X^2 = 524$, $\Sigma Y^2 = 450 \& \Sigma XY = 365$ find correlation coefficient between X &Y.	

Q.4 a) Answer the following questions. (Any Two)

1) Find missing frequency of the class 15-20 in the following incomplete frequency distribution. If mode=18

Х	5-10	10-15	15-20	20-25	25-30
f	3	7		8	4

- 2) What is dispersion? Distinguish between absolute & relative measures of dispersion.
- A box contains 20 balls of which 8 are red. Two balls are drawn at randam without replacement. Find probability of getting balls of alternate colours.

b) Answer the following questions. (Any One)

- 1) If P(A) = 0.70, $P(A \cup B) = 0.80 \& P(B) = 0.50$ Find
 - i) $P(A \cap B)$
 - ii) $P(A^c)$.
- 2) The equation of lines of regression are 4X + 5Y = 35 & 2X + 10Y = 70. Find mean of X & mean of Y.

Q.5 Answer the following questions. (Any Two)

a) Draw the histogram from the following data. Hence determine mode.

	-		-			
Classes	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	5	10	15	20	8	4

- **b)** Explain scatter diagram method of studying correlation between two variables.
- c) Find the C.V. for the date given bellow.

Х	10	12	14	17	20
f	2	6	8	3	1

10

04

Seat				S	et	Ρ
NO.	B.0	C.A. (Semester - I) (New) (CBCS	5) E	xamination Oct/Nov-2019	Į	
		FUNDAMENTALS OF CO	MP	UTER (Paper – I)		
Day 8 Time:	2 Date 03:00	e: Saturday, 09-11-2019 0 PM To 05:00 PM		Max. Ma	irks	: 40
Instru	uctior	 1) All questions are compulsory. 2) Figures to the right indicate full r 3) Draw neat diagrams and give ec 	nark Juati	s. ons wherever necessary.		
Q.1	Fill i	n the blanks by choosing correct alt	erna	atives given below.		08
	1)	ALU is a) Arithmetic Logic Unit c) Application Logic Unit	b) d)	Array Logic Unit None of above		
	2)	Chief component of first generation co	omp	uter was		
		a) Transistorsc) Integrated Circuits	b) d)	Vacuum Tubes None of above		
	3)	 A computer consists of a) A central processing unit c) Input and output unit 	b) d)	A memory All of the above		
	4)	A byte consists of a) One bit c) Eight bits	b) d)	Four bits Sixteen bits		
	5)	Input Devices that use a special ink the iron oxide are	nat c	ontains magnetizable particles	of	
		a) Optical disksc) MICR	b) d)	Magnetic disks Magnetic drives		
	6)	The brain of any computer system is	<u>ه</u>)	 Momoru		
		c) CPU	d)	None of the above		
	7)	Bluetooth is an example of a) personal area network c) virtual private network	b) d)	local area network none of the mentioned		
	8)	printer is impact printer. a) dot matrix c) laser	b) d)	ink jet none of these		
Q.2	Atte	mpt any four of the following question	on.			08
	a) b) c) d) f)	Long form for EPROM and MICR. What are the limitations of computer? Long form of ARPA and SMPS. What are the communication compone Define Firmware and protocol.	ents′	?		

g)

SLR-DR-2

Define computer and Internet.

Q.3	Wri a) b) c)	te short notes any two. Explain evaluation of computer. Explain keyboard in detail. Explain modem in detail.	08
Q.4	Atte a) b) c)	empt any two of the following question. Explain Characteristics of computer. Differentiate between RAM and ROM. Explain LAN, MAN, WAN.	08
Q.5	Atte a) b)	empt any one of the following question. Explain Block diagram of computer. Define topology and explain different types of topologies.	08

Seat No.		Set	Ρ
	E	B.C.A. (Semester - III) (CBCS) Examination Oct/Nov-2019 DATA STRUCTURE USING 'C'	
Day 8 Time:	C Date 11:30	:: Saturday, 09-11-2019 Max. Marks:) AM To 02:00 PM	70
Instru	uction	s: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Fill ir 1)	The blanks by choosing correct alternatives given below.The postfix form of A*B+C/D isa) *AB/CD+b) AB*CD/+c) A*BC+/Dd) ABCD+/*	14
	2)	Which type of traversal of binary search tree outputs the value in sortedorder?a) Pre-orderb) In-orderc) Post-orderd) None of these	
	3)	In what kind of storage we can easily insert, delete, concatenate and rearrange substrings? a) Queue b) Linked List c) Stack d) Array	
	4)	 Which of the following is not application of stack? a) Reversal of string b) Evaluation of Postfix expression c) CPU scheduling d) Matching parenthesis in an expression 	
	5)	Node of linked list contains two parts.a) Singlyb) Doublyc) Both a and bd) None of these	
	6)	To sort '3' elements bubbles sort requires maximum successful swapping. a) 3 b) 4 c) 2 d) 1	
	7)	 A binary tree whose every node has either zero or two children is called. a) Complete binary tree b) Binary search tree c) Extended binary tree d) None of above 	
	8)	Complexity of linear search algorithm isa) O(n)b) O(logn)c) O(n2)d) O(n logn)	
	9)	Merge sort usesa) Divide-and-conquerb) Backtrackingc) Heuristic approachd) Greedy approach	
	10)	In circular linked list, insertion of node requires modification of? a) One pointer b) Two pointer c) Three pointer d) None	

		SLR-DR-2	U
	11)	The data structure required for Breadth First Traversal on a graph is? a) Stack b) Array c) Queue d) Tree	
	12)	In doubly linked lists, traversal can be performed? a) Only in forward direction b) Only in reverse direction c) In both directions d) None	
	13)	Which of the following data structure is linear data structure? a) Trees b) Graphs c) Arrays d) None of above	
	14)	To represent hierarchical relationship between elements, which data structure is suitable? a) Deque b) Linked list c) Tree d) All of above	
Q.2	A)	Answer the following questions. (Any Four)(Any Four)1)List out applications of tree data structure.2)List out application of stack data structure.3)Why sorting is necessary?4)Why circular queue is better than linear queue?5)What is complete binary tree?)8
	B)	Write Notes. (Any Two)(1)Radix sort2)Strictly Binary tree3)Double ended queue.)6
Q.3	A)	 Answer the following questions. (Any Two) 1) Explain AVL tree rotations. 2) What is Singly Linked list and Explain any three operation. 3) Write a program to implement Input Restricted Deque (IRD) with its basic operations.)8
	B)	Answer the following questions. (Any One)01)Write a program of insertion sort technique.2)Explain Dubly Linked list.)6
Q.4	A)	 Answer the following questions. (Any Two) 1) Write a program to implement stack using array. 2) Write a program to implement circular queue with its basic operations. 3) Explain Priority queue. 	10
	B)	Answer the following questions. (Any One)01)Explain difference between stack and queue.2)Explain linear search method with example.)4
Q.5	Ans ⁻ 1) 2) 3)	wer the following questions. (Any two) The following questions. (Any two) What is tree traversal? Explain all tree traversal methods with example. Explain indexed sequential search. What is binary search tree? And explain following operations of binary search tree.	4

- Count_total() count_leaf()
- i) ii)

Seat No.					S	et	Ρ
	I	B.C.A. (Semes NFTWC	ter - III) (CBCS) E DRKING & DATA	Exai	nination Oct/Nov-2019		
Day 8 Time:	& Date 11:30	: Wednesday, 13 AM To 02:00 PN	-11-2019 /	00	Max. Ma	arks	: 70
Instru	uction	is: 1) All question 2) Figures to th	s are compulsory. he right indicate full r	nark	s.		
Q.1	Choc 1)	ose correct alterr Geometric arrang a) Protocols c) Trailer	natives. gement of devices or	n the b) d)	network is called Topology LAN		14
	2)	Which of the follo a) Micro wave c) Radio wave	owing is the fastest c	omn b) d)	nunication channel? Optical fiber None of the above		
	3)	The first network a) NSF net c) ARPANET	that has planted the	see b) d)	ds of internet was V net I net		
	4)	In OSI network a a) Data link lay c) Session laye	rchitecture, the routiner er er	ng is b) d)	performed by Network layer Transport layer		
	5)	Hub is associate a) Bus c) Ring	d with networl	k. b) d)	Star Mesh		
	6)	Which of followin a) TCP c) UDP	g provides reliable c	omn b) d)	nunication? IP All of the above		
	7)	DNS is the abbre a) Dynamic Na c) Domain Nan	eviation of me System ne System	b) d)	Dynamic Network System Domain Network Service		
	8)	Which one of the a) routing c) congestion c	e following is not a fui control	nctio b) d)	n of network layer? inter-networking none of the mentioned		
	9)	Data flow betwee a) simplex c) full-duplex	en two devices can o	ccur b) d)	in a way. half-duplex all of the above		
	10)	Which one of the access control? a) CSMA/CD c) Both (a) and	following is the mult (b)	tiple b) d)	access protocol for channel CSMA/CA None of these		
	11)	The process-to-p of the laye a) Transport c) Physical	process delivery of th er.	e en b) d)	tire message is the responsibili Application Network	ty	

Page 1 of 2

	12)	As frequency increases, the period a) increases b) Decreases c) doubles d) remains the same	
	13)	IPV4 Address is a) 8 bit b) 16 bit c) 32 bit d) 64 bit	
	14)	Electronic mail uses this Application layer protocol a) SMTP b) HTTP c) FTP d) SIP	
Q.2	A)	 Answer the following (Any Four) 1) Define Error? State types of error. 2) Define Amplitude and Bandwidth. 3) What are the elements of data communication? 4) RTP and HTTP stands for 5) What is the function of repeater? 	08
	B)	 Write Notes on (Any Two) 1) Modem 2) Hamming Distance 3) POP 	06
Q.3	A)	 Answer the following (Any Two) 1) Explain Protocol Hierarchies. 2) Explain FTP in detail. 3) Explain data flow in detail. 	08
	B)	 Answer the following (Any One) 1) Explain modulation in detail. 2) Explain Distance Vector Routing. 	06
Q.4	A)	 Answer the following (Any Two) 1) Explain Satellite Communication. 2) Explain Parity Check. 3) Explain service primitives. 	10
	B)	 Answer the following (Any One) 1) Explain Fiber optic cable in detail. 2) Explain Connection oriented and connection less services in detail. 	04
Q.5	Ans a) b)	wer the following (Any Two) Explain ISO-OSI Reference model. Explain ALOHA in detail.	14

c) Define transmission mode? Explain Parallel and Serial transmission mode.

Soat			
No.		Set	Ρ
	E	B.C.A. (Semester - III) (CBCS) Examination Oct/Nov-2019 DBMS WITH ORACLE	
Day 8 Time:	Date 11:30	: Friday, 15-11-2019 Max. Marks:) AM To 02:00 PM	: 70
Instru	uction	s: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Fill ir 1)	the blank by choosing correct alternatives given below.The overall design of the database is known asa) Schemab) Instancec) Instantd) None of above	14
	2)	model describes entities, relationship and attributes.a) Functionalb) Relationalc) Networkd) E-R model	
	3)	The termis used to refer to a row.a) attributeb) fieldc) tupled) instance	
	4)	of the following attribute can be taken as a primary key. a) Name b) Roll no c) Class d) Address	
	5)	Transaction management ensures atomicity and properties.a) Integrityb) Durabilityc) Abstractiond) None of these	
	6)	Specialization is process.a) Bottom upb) Top Downc) Left Rightd) None of Above	
	7)	is a column or set of columns in a table that uniquely identifies rows in table. a) Reference key c) Primary key b) Foreign key d) None of Above	
	8)	property is 'all or nothing' property. a) Atomicity b) Consistency c) Isolation d) Durability	
	9)	In states, all transactions are permanently saved to the database.a) Activeb) Failedc) Abortedd) Committed	
	10)	Insert statement is statement.a) DMLb) DDLc) DCLd) None of Above	
	11)	join condition contains an equality operator. a) Cross Join b) Cartesian c) Equijoin d) None of Above	

	12)	Which of the following is not a typical trigger action? a) Delete b) Insert c) Update d) Select	
	13)	The constraint can only be applied at column level. a) Foreign key b) Primary key c) Not null d) None of Above	
	14)	A PL/SQL blocks begins with section.a) Exceptionb) Startc) Maind) Declare	
Q.2	A)	 Answer the following questions. (Any Four) 1) What is serializability? 2) What are the advantages of DBMS? 3) List database users. 4) What is syntax of for loop? 5) What is Exception? 	08
	B)	 Write Notes. (Any Two) 1) Schemas and instances 2) States of transaction 3) Relation, tuple and domain. 	06
Q.3	A)	 Answer the following questions. (Any Two) 1) What is DDL? Explain DDL commands with example. 2) Write a PL/SQL block to check whether number is odd or even. 3) Write a note on ACID property. 	08
	B)	 Answer the following questions. (Any One) 1) What is a view? Explain with example. 2) What are primary key and foreign key constraints? How to give primary key and foreign key to table level explain with example. 	06
Q.4	A)	 Answer the following questions. (Any Two) 1) What is procedure? Explain with example. 2) Explain logical operators used in SQL. 3) What is DBMS? Explain Query processor of database system. 	10
	B)	 Answer the following questions. (Any One) 1) Explain different codd's rules in details. 2) What are the limitations of traditional file system? 	04
Q.5	Ans a) b)	wer the following questions. (Any Two) What is trigger? Explain types of trigger with example. What is join? Explain types of join with example.	14

c) What is a cursor? Explain explicit cursor and its attributes with example.

Seat No.		Set I	Ρ
	F	B.C.A. (Semester - III) (CBCS) Examination Oct/Nov-2019 OOP WITH C++	
Day 8 Time:	Date 11:30	e: Monday, 18-11-2019 Max. Marks: 7 D AM To 02:00 PM	' 0
Instru	uction	is: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Fill ir 1)	the blanks by choosing correct alternatives given below.1Which of the following is not the member of class?1a) Static functionb) Friend functionc) Pure virtual functiond) Virtual function	4
	2)	Which of the following is not a type of constructor?a) Copy constructorb) Friend constructorc) Default constructord) Parameterized constructor	
	3)	The term means the ability to take many forms.a) Inheritanceb) Polymorphismc) Member functiond) Encapsulation	
	4)	C++ was originally developed bya) Clocksin and Melishb) Donald E.Knuthc) Sir Richard Hadleed) Bjarne Stroustrup	
	5)	A class is datatype.a) primitiveb) derivedc) user-definedd) all of these	
	6)	 A class is a collection of and a) data-members & member functions b) data-members, member functions and main() c) data-members, member functions, main() and include statements d) None of these 	
	7)	 A is a special method used to initialize the instance variable of a class. a) Member function b) Destructor c) Constructor d) Structure 	
	8)	Which of the following operator is overloaded for object cout? a) >> b) << c) + d) =	
	9)	Which of the following approach is adapted by C++?a) Top-downb) Bottom-upc) Right-leftd) Left-right	
	10)	Which of the following cannot be used with the keyword virtual?a) classb) member functionsc) constructord) destructor	

	11)	Inline Functions are invoked at a) Run time b) Compile time c) Depends on how it is invoked d) Both b and c above								
	12)	Which of these keywords are access specifiers?a) near and farb) opened and closedc) table and rowd) private and public								
	13)	An Object can be declared prior to the class definition. a) True b) False								
	14)	A copy constructor takesa) no argumentb) one argumentc) two argumentsd) arbitrary no. of arguments								
Q.2	A)	 Answer the following questions. (Any Four) 1) Write Syntax of Class Definition. 2) What is Pure Virtual Function? 3) What is c++ Tokens? 4) What is this pointer? 5) Write Difference between Structure and class. 	08							
	B)	 Write Notes. (Any Two) 1) What is Constructor? 2) Explain the Inheritance? 3) Describe Operators & Expressions. 	06							
Q.3	A)	 Answer the following questions. (Any Two) 1) Explain Reference Variable With Example. 2) Explain 'Function Overloading' with example. 3) Difference between procedure oriented programming and Object Oriented Programming. 	08							
	B)	 Answer the following questions. (Any One) 1) Write a C++ Program to check given number is Palindrome or not using default Constructor. 2) Write a program to show Constructors overloading. 	06							
Q.4	A)	 Answer the following questions. (Any Two) 1) Explain abstract class with example. 2) Explain basic concepts of oops. 3) Write rules for implementing Operator Overloading. 	10							
	B)	 Answer the following questions. (Any One) 1) What is Difference between function overloading & overriding? 2) Explain Access Specifires in detail? 	04							
Q.5	Ans a) b) c)	wer the following questions. (Any Two) Write a program to input the two file name & copy one file into another. Write a program in c++ to implement any one unary operator overloading with member function. Write an exception handling program on "Division by Zero condition" exception.	14							
Seat No.						Set	Ρ			
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	B.C.A. (Semester - III) (CBCS) Examination Oct/Nov-2019 OPERATIONS RESEARCH									
Day 8 Time:	Date 11:30	: Wednesday, 20) AM To 02:00 PI	-11-2019 M		Ν	/lax. Marks	: 70			
Instru	 Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Use of soundless calculator is allowed. 4) Graph paper will be supply on request. 									
Q.1	Fill ir 1)	the blanks by o How many meth a) 4 c) 2	choosing correct alt ods are there to find	erna IBFS b) d)	itives given below. S of TP? 3 1		14			
	2)	For solving AP v a) Hungarian c) Gauss's	vhich method is used	? b) d)	VAM none of these					
	3)	Collection of all t a) Total feasibl c) Feasible sol	easible solutions is k e solution utions	now b) d)	n as Combined solution None of these					
	4)	lf total supply is a) balanced c) compressed	not equal to total den	nand b) d)	then TP is said to be unbalanced none of these					
	5)	Every LPP is as a) Dual c) Primal	sociated with another	LPF b) d)	o is called as Duel All of these					
	6)	In the optimality solution under te a) Optimal c) Alternative o	test of TP if all $d_{ij} \ge$ est is optimal solution	0 wit b) d)	th at least one $d_{ij} = 0$ th Not optimal Best solution	ien				
	7)	An AP is a speci a) LPP c) AP	al type of	b) d)	TP None of these					
	8)	If one of the con we can convert i a) 0 c) +m	straint is '≤' type then t into '≥ ['] type.	h mul b) d)	tiplying it by on be -1 -m	oth sides				
	9)	The objective of a) maximize tra c) maximize th	TP is ansportation cost e profit	b) d)	minimize transportation none of these	cost				
	10)	Which of the foll a) Eulerian me c) graphical	owing method is used thod	d if L b) d)	PP has exactly two varia VAM None of these	ables.				

		SLK-UK-24
	11)	The LPP is said to be in canonical form if objective function is of type.a) minimizeb) maximizec) optimized) none of these
	12)	In IBFS of TP number of occupied cells must be a) m-n+1 b) m-n-1 c) m+n-1 d) mn-1
	13)	method is better to find IBFS of TP. a) Least cost b) VAM c) North west corner d) All of these
	14)	The LPP is said to be in standard form if all the constraints areType except non negative constraints. a) = b) \leq
		$d > c \leq d$
Q.2	A)	Attempt any four of the following questions.081)Define balanced AP.2)What is feasible region in LPP?3)Define surplus variable in LPP.4)How we can convert a AP of maximization type to minimization type? Explain.5)Define slack variable.
	В)	Attempt any two of the following questions.061) Write the following LPP in standard form, Maximize, $Z = 55x + 29y$ Subject to $3x + 7y \le 10$, $4x + y \le 15$, $y \le 4$, $x \ge 0 & y \ge 0$ 2) Give the LPP formulation of TP.3) Write the note on degeneracy of TP
~ ~	• `	b) white the hote of degeneracy of the
Q.3	A)	 Attempt any two of the following questions. A toy manufacturer company produces two types of toys A & B. each type of toy A requires 3 minutes for cutting 2 minutes for assembles, each type of toy B requires 5 minutes for cutting 4 minutes for assembles. Only 180 minute for cutting 160 minutes for assembles time are available per day. The profit on selling 1 toy of A & one toy of B are Rs 10 & RS 20 respectively. Formulate this problem as LPP so as to maximize the profit. Distinguish between TP & AP. Write the dual of following LPP. Minimize Z = 2x+3y+5z subjected to,

 $2x+3y-4z \ge 4$ $-x+4y+5z \ge 5$ $x,y,z \ge 0$

B) Answer the following questions. (Any One)

- 1) Define
 - a) Feasible solution &
 - b) Decision variable of LPP.

Write the tabular form of TP with 3 factories & 4 warehouses.

- 2) Solve the following AP for maximize the profit by Hungarian method.
 - PQRS
 - A [35 27 28 37]
 - B 28 34 29 40
 - C 35 24 32 33
 - D 24 32 25 82

Q.4 A) Answer the following questions. (Any Two)

1) Solve the following AP to minimize the cost.

	Α	В	С	D
Ρ	[15	13	14	17]
Q	11	12	15	13
R	13	12	10	11
S	[15	17	14	16

2) Find IBFS of following TP by matrix minima method.

	W_1	W_2	W ₃	W ₄	ai
F ₁	190	300	500	100	70
F_{2j}	700	300	400	600	90
F ₃	400	100	600	200	180
bj	50	80	70	140	

3) Define canonical form of LPP. Give any example.

B) Answer the following questions. (Any One)

1) Find IBPS of following TP by north west corner method.

	W_1	W_2	W_3	W_4	a _i
F ₁	30	25	40	20	100
F ₂	20	26	35	40	250
F ₃	31	33	37	30	150
bj	90	160	200	50	500

2) Explain matrix minima method (least cost method) to find IBFS of TP.

Q.5 Answer the following questions. (Any Two)

- 1) Explain Hungarian method to solve A. P.
- 2) Solve by graphical method.
 - Maximize, Z = 9x + 13y

Subject to $2x + 3y \le 18$,

$$2x + y \le 10$$
,

$$x \ge 0 \& y \ge 0$$

3) <u>Find the optimum solution of following IBFS by MODI method.</u>

	D_1	D_2	D_3	ai
01	9 13	15	16	17
01		8		
0	5 7	11	2	10
O_2			$\overline{\mathcal{O}}$	12
0	19	20	9	16
O_3			16	10
b:	14	8	23	45
	17	5	20	10

06

04

14

Seat No.							Set	Ρ	
	B.C.A. (Semester - IV) (CBCS) Examination Oct/Nov-2019 SOFTWARE TESTING								
Day & Time:	Date 08:00	: Fric) AM	lay, 08-11-20 To 10:30 AN	D19 И		Max.	Marks	70	
Instru	uction	s: 1) 2)	All question Figures to t	s are compulsory. he right indicate full r	nark	S.			
Q.1	Fill ir 1)	a) c)	blanks by o is not a S Requiremen Test Closur	choosing correct alt oftware Development ofts Gathering e	erna t Life b) d)	t ives given below. Cycle Phase? Coding Testing		14	
	2)	Wha Test a) c)	it types of er ing? Logic errors Behavioral	rors can be uncovere s errors	ed by b) d)	⁷ Black-Box and White-Box Performance errors None of these			
	3)	Whic a) c)	ch of the follo Condition te Data Flow 1	owing comes under tl esting Festing	ne C b) d)	ontrol Structure Testing? Loop testing All of these			
	4)	Usei a) c)	Acceptance White box to System test	e testing is a type of _ esting ting	b) d)	 Black box testing None of these			
	5)	Whio a) c)	ch of the follo Scope Objective	owing is not a part of	test b) d)	plan? Mission Risk			
	6)	a) c)	is not a S Requiremen Test Closur	oftware Test Life Cyc nts Gathering e	le P b) d)	hase? Test Planning Test Design			
	7)	Whie a) b) c) d)	ch are the fo Minimum pl Useful in sit Both A and None of the	llowing characteristic anning and maximun uations with poor spe B se	s of n exe ecific	Exploratory Testing? ecution ation and limited time			
	8)	Test a) c)	ing is done v Unit testing Adhoc testi	without planning and	docu b) d)	Imentation is called Retesting Regression testing			
	9)	In th a)	e V model, t True	esting starts in parall	el wi b)	th the development. False			
	10)	Whio a) c)	ch is not a pa Rule portior Condition p	art of Decision Table´ ז ortion	? b) d)	Driver portion Action portion			

Г

- 11) Which is the following example of load testing?
 - a) Downloading large contents from the internet.
 - b) Running multiple applications on a computer or server simultaneously.
 - c) Printing large document using printer in a queue.
 - d) All the above
- 12) Which of the following statements is true about reviews?
 - a) Reviews are the least effective way of testing code.
 - b) Reviews cannot be performed on user requirements specifications.
 - c) Reviews are unlikely to find faults in test plans.
 - d) Reviews should be performed on specifications, code, and test plans.
- 13) Which of the following requirements is testable?
 - a) The system shall be user friendly.
 - b) The response time shall be less than one second for the specified design load.
 - c) The safety-critical parts of the system shall contain zero faults.
 - d) The system shall be built to be portable.
- 14) Test cases are designed during _____
 - a) Test recording b) Test planning
 - Test configuration d) Test specification

Q.2 A) Answer the following questions. (Any Four)

- 1) What are the drawbacks of waterfall model?
 - 2) Define Error guessing.
 - 3) What are the phases of testing?
- 4) What are the objectives of system testing?
- 5) What is the use Loop Testing?

B) Write Notes. (Any Two)

C)

- 1) Advantages of Performance Testing.
- 2) Distinguish between Alpha & Beta Testing.
- 3) Need of testing

Q.3 A) Answer the following questions. (Any Two)

- 1) What is stress testing? Why stress testing is needed? Explain with example.
- 2) Explain Inspection and Walkthrough method.
- 3) Define following terms
 - a) Error
 - b) Fault
 - c) Bug
 - d) Failure

B) Answer the following questions. (Any One)

- 1) What is Integration testing? Discuss Top-down and bottom-up Integration Testing.
- 2) Define Test Summary Report. Explain contents of a Test summary report.

08

06

08

06

Q.4	A)	 Answer the following questions. (Any Two) 1) What is white box testing? How decision coverage is differ from statement coverage? 2) What is Requirement Traceability Matrix? How to prepare Requirement Traceability Matrix. 3) What are the advantages of smoke testing? How Smoke Testing works. Explain with example. 	10
	B)	 Answer the following questions. (Any One) 1) Explain Software Prototyping Model. 2) Explain Path Testing with example. 	04
Q.5	Ans 1) 2) 3)	wer the following questions. (Any Two) Explain Defect Life Cycle. Explain Regression Testing with its types. What is Test Case? Explain Test Case Template suitable with example.	14

Seat					Set	Ρ			
NO.		C A (Somos	$\int \frac{1}{\sqrt{2}} \int \frac$		mination Oct/Nov-2010				
	B.C.A. (Semester – IV) (CBCS) Examination Oct/Nov-2019 PYTHON								
Day & Time:	Day & Date: Monday, 11-11-2019 Max. Marks: 70 Time: 08:00 AM To 10:30 AM Max. Marks: 70								
Instru	Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks.								
Q.1	Fill in t 1) E A a c	he blanks by valuate the ex % B // A) 0.0) 1.0	choosing correct a pression given belo	alterna wifA: b) d)	atives given below. = 16 and B = 15. 0 1	14			
:	2) W a c	Vhich of the fol) +) %	lowing operators ha	is its a b) d)	ssociativity from right to left? // **				
:	3) W a c	Vhich of the fol) /) //	lowing is the trunca	tion di b) d)	vision operator? % 				
	4) T u a c	o place a butto se) pack manag) place mana	on in a specified row ger ger	/ and (b) d)	column in its parent container, grid manager flow manager				
!	5) W n a c	Vhich block are ot?) try) finaly	executed irrespect	ive of b) d)	whether there is an exception or except all of these				
	6) V S p a c	Vhat is the outp tr= 'Hello' rint(s[:3])) hello) Error	out of the following?	b) d)	Hel ello				
	7) W a c	Vhich method r) digit()) alldigit()	eturns True if all the	e char b) d)	acters in the string are digits? isdigit() digits()				
;	8) W a b c d	 Vhich of the following Id returns the second se	lowing is the use of ne identity of the obj t doesn't have a un b). mentioned	id() fu ject ique io	nction in python?				
9	9) W a c	Vhich of the fol) re.A) re.I	lowing functions res	sults ir b) d)	case insensitive matching? re.U re.X				

	10)	Which of the following statement are correct for declare the dictionary in python?	
		a) d=['rollno':'name'] c) d={'rollno':'name'} b) d=['rollno','name'] d) d=('rollno','name')	
	11)	Which collection data type represents a group of elements arranged in the form of key-value pairs?	
		a) List b) Set c) Tuple d) Dictionary	
	12)	Which one of the following is not attributes of file? a) closed b) softspace c) rename d) mode	
	13)	Multi lined comment can be given inside quotes. a) single b) double c) triple d) all of these	
	14)	In python, the anonymous functions are declared by using keyword. a) Lambda b) anonymous c) function d) all of these	
Q.2	A)	 Answer the following question. (Any Four) 1) What is module? 2) Explain Global and local variables. 3) What is File? 4) List out advantages of GUI? 5) What is Exception? 	08
	B)	 Write short notes. (Any Two) 1) Type conversion 2) Spinbox Widget 3) Tuples 	06
Q.3	A)	 Answer the following question. (Any Two) 1) Explain features of python. 2) Explain Math module in details. 3) Write a program to check given number is Armstrong or not. 	08
	B)	 Answer the following question. (Any One) 1) What is exception? Explain types of exception. 2) Explain List and methods of List with example. 	06
Q.4	A)	 Answer the following question. (Any Two) 1) What is function and Explain function parameter in details? 2) Explain technique to create, update and delete dictionary items. 3) Write a program to drawn the following shapes on canvas: i. circle ii. square iii. rectangle iv. line 	10
	B)	 Answer the following question. (Any One) 1) Write a program to insert employee information such eid, ename, salary, etc into employee Table. 2) Explain Time module in details. 	04

Q.5 Answer the following question. (Any Two)

- a)
- b)
- Explain any five widgets with example. Explain condition and looping statements with example. Write a program to count number of words, lines and characters which is C) stored into file.

Cast					1					
Seat No.					Set	Ρ				
	B.C.A. (Semester - IV) (CBCS) Examination Oct/Nov-2019 OPERATING SYSTEM									
Day & Time:	Date 08:00	e: Thu D AM	ırsday, 14-11-2019 To 10:30 AM		Max. Marks	: 70				
Instru	iction	is: 1) 2)	All questions are compulsory. Figures to the right indicate full	mark	S.					
Q.1	Fill ir 1)	h the A bin a) b) c) d)	blanks by choosing correct al nary semaphore Has the values one or zero Is essential to binary computers Is used only for synchronization Is used only for mutual exclusio	tern a n	atives given below.	14				
	2)	The a) c)	number of processes completed Output Efficiency	per b) d)	unit time is known as Throughput Capacity					
	3)	Sho a)	rt-term scheduler executes more True	freq b)	uently than long-term scheduler. False					
	4)	Whi a) c)	ch of the following do not belong Job queue Device Queue	to qu b) d)	leues for processes? PCB queue Ready Queue					
	5)	a) c)	is a logical extension of time s Real time Distributed	sharir b) d)	ng operating system. Multiprocessing Multiprogramming					
	6)	The a) c)	starvation problem faced in FCFS Priority	sc b) d)	heduling algorithm. SJF RR					
	7)	FIF(a) c)	D Scheduling is Non Preemptive Scheduling Preemptive Scheduling	b) d)	Dead Line Scheduling None of these					
	8)	a) c)	is also known as 'Roll out' and Process Both a) and b)	d 'Ro b) d)	l in'. Swapping None					
	9)	The a)	Bankers algorithm is used to dea True	adloc b)	k avoidance. False					
	10)	a) c)	control the degree of multipro Compiler Long term scheduler	gram b) d)	ming. CPU Ready queue					
	11)	The a) c)	Bleady's anomaly is related to _ FIFO Optimal	b) d)	page replacement algorithm. LRU None of these					

12)	Physical memory is divided i	nio fixed siz		
	a) frames	b)	pages	
	c) backing store	d)	None of these	
13)	file is saved with .obj	extension.		
-	a) text	b)	batch	
	c) object	d)	excel	
14)	In segmentation logical mem	ory is divide	ed into	
	a) pages	b)	frames	
	c) blocks	d)	segments	
A)	Answer the following quest	ions. (Any	Four)	08
	1) What is file? List out the	e attributes of	of file.	
	2) What is thread? List ou	t types of the	ead.	
	 4) List out asheduling arits 	r List out typ	es of fragmentation.	
	5) Define semaphore and	synchroniza	tion?	
		Syncinonize		
B)	Write Notes. (Any Two)			06
	1) Life Cycle of process			
	 2) Types of Scheduler 3) Eulertions of operating (systom		
		system		
A)	Answer the following quest	ions. (Any	Two)	08
	1) Consider the following (example. Im	plement the FCFC Sc	neauling
	aigontinin.			
		rocess	Burst Time	
		1	15	
		2	8	
		3	5	
	i) Draw the Gantt	chart	a time	
	iii) Calculate the av	reage waitin		
	2) Explain segmentation in	naiounu iin detail		
	3) Define the term process	s? Explain p	rocess control block ir	n detail
D)	An among the following success			
в)	Answer the following quest	ions. (Any	Une)	06
	2) Explain the necessary (conditions of	deadlock	
_ 、				
A)	Answer the following quest	ions. (Any	IWO)	10
	2) What is directory? State	explain the s	swapping in detail.	icturoc
	3) Explain services provid	ed by Opera	ting System	uciules.
D)	An even the following event			04
в)	Answer the following quest	ions. (Any filog in dotai	Une)	04
	 Explain the all types of Explain resource alloca 	tion graph w	is. vith example	
A	2) Explain resource alloca		an example.	
	What is page replacement of	. (ANY IWO)	ito the working of ELEC	14
1)	replacement algorithm with a	yonunn: Wi xample		y hage
2)	Define Operating System Fx	plain anv th	ee types of Operating	Svstem
			s of the second stand	- ,
	 12) 13) 14) A) B) A) B) A) B) Ans 1) 2) 	 a) frames c) backing store 13) file is saved with .obj a) text c) object 14) In segmentation logical mem a) pages c) blocks A) Answer the following quest 1) What is file? List out the 2) What is thread? List out 3) What is Fragmentation? 4) List out scheduling crite 5) Define semaphore and B) Write Notes. (Any Two) 1) Life Cycle of process 2) Types of Scheduler 3) Functions of operating semaphore Answer the following quest 1) Consider the following quest 1) Consider the following quest 1) Consider the following quest 1) Calculate the tu 2) Explain segmentation in 3) Define the term process B) Answer the following quest 1) What is System Call? E 2) Explain the necessary of A) Answer the following quest 1) Define the Swapping? E 2) What is directory? State 3) Explain services provid B) Answer the following quest 1) Explain the all types of 2) Explain resource alloca Answer the following quest 1) Explain the all types of 2) Explain resource alloca Answer the following quest 3) Explain resource alloca 	 a) frames b) c) backing store d) 13)file is saved with .obj extension. a) text b) c) object d) 14) In segmentation logical memory is divide a) pages b) c) blocks d) A) Answer the following questions. (Any 1) What is file? List out the attributes of 2) What is thread? List out types of thr 3) What is Fragmentation? List out type of thr 3) What is Fragmentation? List out type of thr 3) What is thread? List out types of thr 3) What is thread? List out types of thr 3) What is check using criteria. 5) Define semaphore and synchroniza B) Write Notes. (Any Two) Life Cycle of process Types of Scheduler Functions of operating system A) Answer the following questions. (Any 1) Consider the following example. Im algorithm. Process P1 P2 P3 i) Draw the Gantt chart ii) Calculate the average waiting iii) Calculate the average waiting iii) Calculate the average waiting iii) Calculate the turnaround tim 2) Explain segmentation in detail. 3) Define the term process? Explain p B) Answer the following questions. (Any 1) What is System Call? Explain types 2) Explain the necessary conditions of A) Answer the following questions. (Any 1) Define the Swapping? Explain the Si 2) What is directory? State and explain 3) Explain services provided by Opera B) Answer the following questions. (Any 1) Explain the all types of files in detail 2) Explain resource allocation graph w 	 a) frames b) pages c) backing store d) None of these 13)file is saved with .obj extension. a) text b) batch c) object d) excel 14) In segmentation logical memory is divided into a) pages b) frames c) blocks d) segments Answer the following questions. (Any Four) 1) What is file? List out types of thread. 3) What is Fragmentation? List out types of fragmentation. 4) List out scheduling criteria. 5) Define semaphore and synchronization? B) Write Notes. (Any Two) 1) Life Cycle of process 2) Types of Scheduler 3) Functions of operating system A) Answer the following questions. (Any Two) 1) Consider the following example. Implement the FCFC Sc algorithm. Process Burst Time P1 15 b) Draw the Gantt chart ii) Calculate the average waiting time iii) Calculate the average waiting time iii) Calculate the average waiting time 2) Explain segmentation in detail. 3) Define the term process? Explain process control block ir B) Answer the following questions. (Any One) 1) What is System Call? Explain types of System Calls. 2) Explain the necessary conditions of deadlock. A) Answer the following questions. (Any One) 1) Define the Swapping? Explain the Swapping in detail. 2) What is directory? State and explain various directory strutions directory? State and explain various directory strutions of patient enditypes of files in details. 2) Explain tresource allocation graph with example. Answer the following questions. (Any Two) 1) Define the all types of files in details. 2) Explain tresource allocation graph wi

	E	B.C.A. (Semester - IV) (CBCS) E ADVANCED WEB T	xa EC	nination Oct/Nov-: HNOLOGY	2019
Day & Time	& Date : 08:00	: Saturday, 16-11-2019) AM To 10:30 AM			Max. Marks: 70
Instr	uction	s: 1) All questions are compulsory.2) Figures to the right indicate full n	nark	S.	
Q.1	Fill ir	n the blanks by choosing correct alt	erna	itives given below.	14
	1)	used to provide comment in Ph	IP.		
		a) // c) /* */	b) d)	# All of these	
	2)	<pre>Which of the following php statement/ num? i) int \$num = 111; ii) int mum = 111; iii) \$num = 111; iv) 111 = \$num; a) Both i) and ii) c) Only iii)</pre>	state b) d)	ements will store 111 in All of the mentioned Only i)	n variable
	3)	What will be the output of the following php<br \$num = 1; \$num1 = 2; print \$num . "+". \$num1; ?> a) 3 c) 1 + 2	g ph b) d)	p code? 1+2 Error	
	4)	Which SQL statement is used to updaa) MODIFYc) SAVE	d) ite d b) d)	ata is a database? SAVE AS UPDATE	
	5)	 operator is used to concatenate a) . (dot) c) & (ampersand) 	e tw b) d)	o strings in PHP. + (plus) (pipe)	
	6)	 Which of the following are correct way i) state[0] = "karnataka"; ii) \$state[] = array("karnataka"); iii) \$state[0] = "karnataka"; iv) \$state = array("karnataka"); a) iii) and iv) c) only i) 	vs of b) d)	creating an array? ii) and iii) ii). iii) and iv)	
	7)	 Which one of the following is the right a) \$object->methodName(); c) object::methodName(): 	way b) d)	v to invoke a method? object->methodName \$object::methodName	(); e();
	8)	Which of the following statements invoa) throws new Exception();c) new Exception();	b) d)	the exception class? throw new Exception(new throws Exception); (();

Seat No.

Set P

- 9) Which function will return true if a variable is an array or false if it is not?
 - a) this array()
- b) is array() d) in array()

d)

- c) do array()
- 10) Which statement is used To produce a stored function? b) CREATE FUNCTION
 - a) **PRODUCE FUNCTION**
 - c) PRODUCE PROCEDURE
- To validate an email address, which flag is to be passed to the function 11) filter var()?
 - a) FILTER_VALIDATE_EMAIL
- b) FILTER_VALIDATE_MAIL

CREATE PROCEDURE

- c) VALIDATE EMAIL
- d) VALIDAT MAIL
- 12) Which two predefined variables are used to retrieve information from forms?
 - a) \$GET & \$SET

- \$_GET & \$_SET b)
- c) \$___GET & \$___SET
- d) GET & SET
- Which one of the following function is used to start a session? 13)
 - a) start session() b) session start()
 - d) begin session() c) session begin()
- 14) What will be the output of the following PHP code? Say your previous session username was nachi. unset(\$_SESSION['username']); printf("Username now set to: %s", \$_SESSION['username']); a) Usemame now set to: nachi b) Username now set to: System c) Username now set to: d) Error Answer the following questions. (Any Four) 08 Q.2 A) What is indexed & associative array? 1) 2) What is Dynamic variables? Write the application of PHP. 3) What is cookie? 4) What is class constants? 5) B) Write Notes. (Any Two) 06 1) Differentiate between session and cookies 2) Write note on global keyword Explain \$ GET and \$ POST variable 3) Q.3 Answer the following questions. (Any Two) 08 A) What is constructor? Explain with example. 1) 2) Explain different parameter passing technique. Write note on comparing and joining strings. 3) 06 B) Answer the following questions. (Any One) What is Abstract class? Explain with suitable example. 1) 2) Explain different sorting techniques of arrays with proper examples. Answer the following questions.(Any Two) 10 Q.4 A) 1) Explain benefits of PHP as a server side languages. Explain Server side validation. 2) Explain different Array library functions. 3) Answer the following questions. (Any One) 04 B)
 - Write note on basic structure of PHP program. 1)
 - Write a program to implement interface. 2)

- Q.5 Answer the following questions. (Any Two)
 a) What are data validations? Explain types of validations.
 b) Write a program for insert, update & delete the record in MySQL.
 - What is exception handling? Explain with suitable example. C)

Seat No.		Set P
	E	.C.A. (Semester - IV) (CBCS) Examination Oct/Nov-2019 E - GOVERNANCE
Day & Time:	Date 08:00	Tuesday, 19-11-2019 Max. Marks: 70 AM To 10:30 AM Max. Marks: 70
Instru	ction	 a: 1) All questions are compulsory. 2) Figures to the right indicate full marks.
Q.1	Fill ir 1)	the blanks by choosing correct alternatives given below.14The computerization of land Records by NIC is widely known asa) Bhoomib) Zameenc) CLRSd) None of these
	2)	Electronic Tax payment belongs to the category of a) C2G b) P2P c) C2B d) B2B
:	3)	E-Governance service maturity models are paperless and faceless. a) Pageless b) Wireless c) Cashless d) All of these
	4)	B2B stands fora) Business to Governmentb) Business to Businessc) Business to Buyerd) Buyer to Buyer
:	5)	is the key to good governance and good governance is the only effective way of transparent governance. a) Transfer b) Transparency c) Transaction d) Transmission
	6)	interaction model refers to the usages of electronic means between government and public. a) G2C b) G2G c) G2B d) B2C
	7)	n state NeGP is implemented first in India. a) Maharashtra b) Punjab c) Assam d) Himachal Pradesh
,	8)	 service rendered to a beneficiary through any service delivery channel enabled with option of Electronic / digital payment modes. a) Paperless b) Faceless c) Cashless d) All of these
	9)	 BPR stands for a) Business process reengineering b) Business practical reengineering c) Business Planning reengineering d) Business process recycle

d) Business process recycle

	10)	 is a systematic approach to dealing with change, both from the perspective of an organisation and on the individual level. a) Capacity building b) Change Management c) PPP d) BPR 	
	11)	Capacity building also known as a) System Development b) Change Management c) Ability Development d) Capacity Development	
	12)	is the example of social media site. a) Facebook b) Amezon c) Google d) Opera	
	13)	Which institution was set up by Government of India to catalyze E- Governance activities? a) FICCI b) NIC c) NASSCOM d) MIT	
	14)	 is an essential component of successful change management. a) Consultation b) Leadership c) Monitoring and evaluation d) All of these 	
Q.2	A)	 Answer the following questions. (Any Four) 1) NeGP stands for 2) B2G stands for 3) ICT stands for 4) What is mean by SDLC? 5) Define capacity Building. 	08
	B)	 Write Short Notes. (Any Two) 1) Intellectual Properties 2) Objectives of E-Governance 3) Domain Name 	06
Q.3	A)	 Answer the following questions. (Any Two) 1) Explain the e-government services in India. 2) What is meant by self finance? 3) Explain Maturity models of E-Government in brief. 	08
	B)	 Answer the following questions. (Any One) 1) What is Traits of political Leader? 2) What is PPP? Explain characteristics of PPP? 	06
Q.4	A)	 Answer the following questions. (Any Two) 1) Explain four stages of E-Government models. 2) Explain the phases of change Management. 3) What is E-Readiness? Explain it's importance? 	10
	B)	 Answer the following questions. (Any One) 1) What is the Joint Venture? Explain the benefits of Joint Venture? 2) What are the major advantages and disadvantages of E-Governance? 	04
Q.5	Ans	swer the following questions. (Any Two)	14
	a)	Define E-Governance. Explain in brief the following components of G2G, G2B and G2C.	
	b)	What is E-Government project life cycle? Explain in brief the important activities in each phase?	

c) What is the Role and Advantages of social media?

Seat No.	t	S	Set	Ρ
Day	B.(L(C.A. (Semester - I) (New) (CBCS) Examination Oct/Nov-2019 OGIC DEVELOPMENT WITH 'C' PROGRAMMING (Paper - II)) Iorko	. 40
Time	: 03:0	00 PM To 05:00 PM	ains	. 40
Instru	uctior	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.		
Q.1	Fill i 1)	in the blanks by choosing correct alternatives given below.Array index starts froma) 0b) 1c) 2d) Any number		08
	2)	 'C' language is programming language. a) High-level b) Low-level c) Middle-level d) None of these 		
	3)	 is the name given to memory address where data is stored. a) Operator b) Variable c) Keyword d) Special symbol 		
	4)	 directive is used to declare constants in program. a) #include b) #define c) #const d) None of these 		
	5)	The statement terminator is a) ; b) : c) # d) }		
	6)	The range of int data type varies from to a) -128 to 127 b) -32768 to 32767 c) 3.4e-38 to 3.4e+38 d) None of these		
	7)	is the result of statement 25<<3 a) 42 b) 48 c) 200 d) 360		
	8)	format code is used to read long integer. a) %d b) %f c) %1f d) %1d		
Q.2	Ansv 1) 2) 3) 4) 5) 6)	wer the following questions.(Any Four) What is Two-dimensional array? What is nested loop? What is pseudo code? What is use of header file? What is local and global variable? What is 'typedef'?		08
Q.3	Write 1) 2) 3)	Se short notes on. (Any Two) Jump statements Type casting Ternary operator		08

Q.4 Answer the following questions. (Any Two)

- 1) Write a program to check entered number is palindrome or not.
- 2) What is data type? Explain all primitive data types in details.
- 3) Write a program to display matrix multiplication.

Q.5 Answer the following questions. (Any One)

- 1) Write a program which takes one number as input and print corresponding month name.
- 2) What is logic? Explain all types of logic.

80

80

Seat No.		Set F	
	B.C	.A. (Semester - V) (New) (CBCS) Examination Oct/Nov-2019 CORE JAVA	
Day & Time:	Date 03:00	: Saturday, 09-11-2019 Max. Marks: 70 PM To 05:30 PM	C
Instru	iction	s: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Fill ir 1)	the blanks by choosing correct alternatives given below.1What is the name of the method used to start a thread execution?a) init();a) init();b) start();c) run();d) resume();	4
	2)	Which of the following is not a method in java.util.Scanner class?a) next()b) nextLine()c) nextInt()d) nextBoolean()	
	3)	Which of these keyword can be used to prevent Method overriding?a) staticb) constantc) protectedd) final	
	4)	Which of these keyword can be used in subclass to call the constructor of superclass?a) superb) thisc) extentd) extends	
	5)	Which of these access specifiers must be used for main() method?a) privateb) publicc) protectedd) none of the mentioned	
	6)	Which of these classes is used for input and output operation when working with bytes?a) InputStreamb) Readerc) Writerd) All of the mentioned	
	7)	Which of these keyword must be used to inherit a class?a) superb) thisc) extentd) extends	
	8)	All the variables of interface should be?a) default and finalb) default and staticc) public,static and finald) protect, static and final	
	9)	 What is process of defining two or more methods within same class that have same name but different parameters declaration? a) method overloading b) method overriding c) method hiding d) none of the mentioned 	
	10)	What is the numerical range of a char data type in Java?a) -128 to 127b) 0 to 256c) 0 to 32767d) 0 to 65535	

	11)	Which of the following is a method having same name as that of its class?a) finalizeb) deletec) classd) constructor	
	12)	Which of these packages contains all the event handling interfaces?a) java.langb) java.awtc) java.awt.eventd) java.event	
	13)	What is the return type of a method that does not return any value? a) int b) float c) void d) double	
	14)	Which of these keywords must be used to handle the exception thrown by try block in some rational manner?a) tryb) finallyc) throwd) catch	
Q.2	A)	 Answer the following questions. (Any Four) 1) Write any four java operator. 2) Write any two use of 'super' java keyword. 3) Write a syntax of static method. 4) Explain any two use of 'this' keyword. 5) Write any two JDBC Driver. 	08
	B)	 Write Notes. (Any Two) 1) AWT 2) Method overriding 3) Arrays 	06
Q.3	A)	 Answer the following questions. (Any Two) 1) Explain Access specifiers in java. 2) Write a note on JDK tools in java. 3) Explain flow control statements. 	08
	B)	 Answer the following questions. (Any One) 1) Explain the different types of inheritance in java. 2) Explain Thread priority in java with suitable example. 	06
Q.4	A)	 Answer the following questions. (Any Two) 1) Explain Architecture of JDBC. 2) Explain Thread life cycle in java. 3) Explain Structure of Java Program. 	10
	B)	 Answer the following questions. (Any One) 1) Explain features of Java. 2) What is the use of Layout Managers? Explain GridLayout with example. 	04
Q.5	Ans 1) 2) 3)	wer the following questions. (Any Two) Explain FileWriter and FileReader class with an example. Define Constructor. Explain the types of constructor. What is Exception Handling? Explain the user defined exception with example.	14

Seat No.	:	Set	Ρ				
	B.C.A. (Semester - V) (New) (CBCS) Examination Oct/Nov-2019 Visual Programming						
Day & Time:	& Date : 03:0	e: Wednesday, 13-11-2019 Max. Marks 0 PM To 05:30 PM	: 70				
Instru	uctio	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.					
Q.1	Mult 1)	Eiple Choice Questions.What is return type of constructors?a) intb) floatc) voidd) none of these	14				
	2)	Which of these keywords are used for the block to handle the exceptionsgenerated by try block?a) Tryb) Catchc) Throwd) Check					
	3)	Which form of inheritance is not supported directly by C#.NET?a) Multiple inheritanceb) Multilevel inheritancec) Single inheritanced) Hierarchical inheritance					
	4) a) b) c) b)	What is the need for 'Conversion of data type' in C#? To store a value of one data type into a variable of another data type To get desired data To prevent situations of run time error during change or conversion of data type None of the mentioned					
	5)	Which of the following service provided by CLR? a) Verification of type safety b) Inter-operability c) Automatic garbage collection d) All of these					
	6)	Which of the following is predefined reference type?a) Structureb) Enumerationc) Classd) Object					
	7)	 What is the process of defining more than one method in a class differentiated by parameters known as? a) Method overriding b) Method overloading c) Method doubling d) None of the mentioned 					
	8)	<pre> operator can be used to concatenate two or more String objects. a) + b) += c) & d) </pre>					
	9)	Which of the following is NOT an Arithmetic operator in C#.NET? a) ** b) + c) / d) %					

- 10) keyword is used to declare a base class method while performing overriding of base class methods.
 - a) this

- b) virtual
- c) override d) extend
- _ namespace is required to connecting to the SQL Server. 11)
 - a) System.Data.OracleClient b) System.Data.SglClient
 - c) System.Data.
- d) System.Data.ADO
- 12) property allows the Text Box control to display text in more than one line.
 - a) Many

- b) More
- c) Multiline d) Many line
- specially designed for accessing the value of an array or a 13) collection. b) While loop
 - a) For loop
 - c) Do-while loop d) Foreach loop
- _ control is used to select one option from a set of options. 14)
 - b) GroupBox a) CheckBox
 - c) RadioButton d) ComboBox

Q.2	A)	Answer the following questions. (Any Four)	08
		 Abstract classes Garbage Collection Anonymous Method Enumeration Collection Classes 	
	B)	 Write Notes on (Any Two) 1) WAP to overload a method 2) Explain what are Assemblies with their types? 3) Define Data Set with its advantages. 	06
Q.3	A)	 Answer the following questions. (Any Two) 1) What is generic collection? Explain any two generic classes with example 2) Explain the following controls. i) Check Box ii) Radio Button 3) What is Indexer? Give one example. 	08 e.

B) Write Notes on. (Any One)

1) Explain different methods of Thread class. 2) Define File Info with example.

Q.4 A) Answer the following questions. (Any Two) 10

- What is method overriding? Explain with suitable example. 1)
- 2) Write a note on Static members and Static Methods.
- 3) What is stream? Explain how to read and write Console I/O data.

Answer the following questions. (Any One) B)

- Write note on properties. 1)
- Differentiate between DataReader and DataAdapter. 2)

Answer the following questions. (Any Two) Q.5

- Explain architecture of .NET Framework. a)
- Create a window application to add a new record using stored procedure. b)
- What is Delegate? WAP that uses multicast delegate. c)

06

04

14

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Seat No.	t	Se	et	Ρ
	B.C	C.A. (Semester - V) (New) (CBCS) Examination Oct/Nov-2019		
Day & Time	& Date : 03:0	e: Friday, 15-11-2019 Max. Ma 0 PM To 05:30 PM	rks:	70
Instr	uctio	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.		
Q.1	Fill i 1)	n the blanks by choosing correct alternatives given below.Which command is not related to the directory?a) cdb) pwdc) catd) mkdir		14
	2)	Which of the following is the features of Linux operating system?a) multiuserb) multi processc) multi taskingd) all of these		
	3)	Which of the following symbols represents redirection? a) b) < c) & d)		
	4)	 a) ? b) * c) _ 		
	5)	What command is used with Vi editor to delete a single character? a) x b) y c) a d) z		
	6)	In Linux file system is the top level directory. a) home b) root c) bin d) etc		
	7)	A user can change his password using pwd command. a) True b) False		
	8)	To change the priority of a job we can use the command. a) nice b) pr c) set d) priority		
	9)	LILO stands fora) Linux boot loaderb) Is a tool used to boot the kernec) Linux Loaderd) None of these	I	
	10)	Which of the following tool is used to partition your hard drive? a) mkfs b) fsck c) mount d) fdisk		
	11)	Which option of is command used to view hidden file? a) -i b) -d c) -r d) -a		
	12)	A process can run only in background. a) True b) False		

	13)	What command is used to list the jobs currently in print queues? a) lpq b) lpr c) lprm d) lprq	
	14)	The default environment of Linux is a) GNOME b) KDE c) Both a & b d) none of these	
Q.2	A)	 nswer the following questions. (Any Four) What is shell? What is the hardware requirement of Linux? What is boot block? What is cat command? Write short note DHCP. 	08
	B)	 Irite Notes. (Any Two) What is the role of system administrator? Give the use of ping command with example. How to create user? explain with example. 	06
Q.3	A)	 nswer the following questions. (Any Two) What is the difference between Window & Linux operating system? Explain in detail foreground & background. What is boot loader? Explain it's types. 	08
	B)	 nswer the following questions. (Any One) What is the purpose of chmod command? explain with example. Write a shell script to check entered number is prime or not. 	06
Q.4	A)	nswer the following questions. (Any Two) Explain hierarchy of file system. Explain filter command with example. Explain NFS & NIS.	10
	B)	nswer the following questions. (Any One) What is redirection? Explain I\O redirection. Explain the architecture of Linux operating system.	04
Q.5	Ans 1) 2) 3)	er the following questions. (Any Two) xplain Vi editor in detail. ow to archive and compression of the file in Linux. /rite a Shell program to check the given integer is Armstrong number or ot.	14

Seat No.		Set	Ρ
	B.C	A. (Semester - V) (New) (CBCS) Examination Oct/Nov-2019 COMPUTER GRAPHICS	
Day & Time:	Date 03:00	: Monday, 18-11-2019 Max. Marks: PM To 05:30 PM	70
Instru	iction	s: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Fill in 1)	the blanks by choosing correct alternatives given below.The Quality of a picture is obtained from a device depends ona) Dot Sizeb) Number of dots per inchc) Number of lines per inchd) All of the above	14
	2)	Projection line isa) Continuous thick lineb) Continuous thin linec) Chain thin lined) Dashed thin line	
	3)	A line can be represented bya) One pointb) Two pointc) Three pointd) four point	
	4)	There are two standard method of mathematically representing a circle centred at the origina) DDA & Bresenham'sb) Polynomial & Trigonometricc) Polynomial & Bresenham'sd) none of these	
	5)	 A is defined as a polygon with one or more interior angles greater than 180°. a) Hexagon b) Pentagon c) Octagon d) none of these 	
	6)	The mid- point circle drawing algorithm also uses the of the circle to generate.a) Two -way symmetryb) Four-way symmetryc) both a) & b)d) Eight-way symmetry	
	7)	In two dimensional viewing we have a) 2D window & 3D view port b) 2D window & 2D view port c) 3D window & 2D view port d) 3D window & 3D view port	
	8)	When the projection is obtained by projecting points along parallel linesthat are not perpendicular to the projection plane is calleda) Cavalier projectionb) Isometric projectionc) Perspective projectiond) Oblique projection	
	9)	Vector display is well suited for a) Line drawing application b) Animation c) Cartoon d) All of these	
	10)	Shadow mask method is usually used in a) LCD b) Raster scan display c) Random scan display d) DVST	

	11) The basic geometrical structure that describes a scene on display is called							
		a) Attributesb) Output primitivec) Linesd) Curves						
	12)	The region against which an object is clipped is called aa) Clip windowb) Boundaryc) Enclosing rectangled) Clip square						
	13)	The region code of a point within the window is a) 0000 b) 0001 c) 1000 d) 1111						
	14)	Graphics software acts as a very powerful tool to createa) Imagesb) Animated picturesc) both a) & b)d) System interface						
Q.2	A)	Answer the following questions. (Any Four)(1)List out different graphics packages.(2)What are the problems in scan conversion?3)Define polygon and its type.4)What is translation?5)Define projection.)8					
	B)	Write Notes. (Any Two)(1)Plotters2)Boundary fill algorithm3)Vanishing points)6					
Q.3	A)	Answer the following questions. (Any Two)(1)Explain ordered edge list algorithm.2)What is 3D shearing?3)Explain combined transformation in 2D.	98					
	B)	 Answer the following questions. (Any One) 1) Explain Sutherland-Hodgman algorithm for polygon clipping. 2) Explain different perspective anomalies in projection.)6					
Q.4	A)	 Answer the following questions. (Any Two) 1) What are different types of printer? Explain its working. 2) Explain Window to view point mapping in 2D. 3) Explain scaling about reference point. 	10					
	B)	Answer the following questions. (Any One)(1)What are the applications of computer graphics?2)Explain hard copy raster devices.)4					
Q.5	Ans a) b) c)	ver the following questions. (Any Two) Explain image formation inside analog and digital camera. Writes and explain Bresenham's line drawing algorithm. Explain basic 3D transformation.	14					

	B.C	.A. (Semester DATA	- V) (New) (CBC WAREHOUSE A	S) NC	Examination Oct/Nov-201 DATA MINING	9
Day & Time:	& Date 03:00	: We PM	dnesday, 20 [.] To 05:30 PM	-11-2019 1		Max. M	larks: 70
Instru	uction	s: 1)	All question	s are compulsory.			
Q.1	Fill ir	the	blanks by c	hoosing correct al	terr	atives given below.	14
	1)	Fact a) c)	Completely Completely	denormalized normalized	b) d)	Partially denormalized Partially normalized	
	2)	The a) b) c) d)	genric two-le at least one data extract near real tin all of above	evel data warehouse data mart ed from external an ne update	e arc d inf	chitecture include	
	3)	The	important as	pect of the data wa	rehc	use environment is that data	
		foun a) c)	d within the subject-orie integrated	data warehouse is _ nted	b) d)	 time-variant all of the above	
	4)	The a) c)	data Wareho read only read write o	ouse is nly	b) d)	write only none of these	
	5)	The a)	role of ETL p True	process is to identify	verr b)	oneous data and fix them False	
	6)	a) b) c) d)	is the hea Data mining Data wareh Data mart d Relational d	rt of the warehouse database servers ouse database serv atabase servers ata base servers	ers		
	7)	a) b) c) d)	databases Informationa Operational Both informa Flat	are owned by parti al ational and operatio	icula nal	r departments or business grou	ps.
	8)	The a) c)	star schema one three	is composed of	b) d)	fact table. two four	
	9)	The a) c)	time horizon 30-60 days 90-120 days	in operational envir	onn b) d)	nent is 60-90 days 120-150 days	
	10)	Wha a) c)	it is an ETL s Execute trai Execute trai	stand for nsmit and load nsform and load	b) d)	Extract transform and load All of above	

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	11)	A star schema a) Many to	a has what type of rel Many	ationsh b)	nip betwee One to C	en dimension and fact ta One	ble.
	10)		ahama ia which of the	u) a fallau		of tables	
	12)	a) Fact		e Ioliov h)	dimensio		
		c) Helper		d)	All of ab	ove	
	13)	Classification	rules are extracted fr	~, om			
	13)	a) Root noc		b)	 Decision	tree	
		c) Siblings		d)	Branche	S	
	14)	The data is st	ored retrieved and up	dated	in	-	
	• • • •	a) OLAP		b)	OLTP.		
		c) SMTP		d)	FTP		
Q.2	A)	Answer the fo	llowing guestions.	(Any F	our)		08
	,	1) What are t	he techniques in Data	a Minir	ig?		
		2) Define We	b Mining?				
		3) What is De	ecision Tree?				
		4) Define OL	TP?				
		5) Define Spa	atial Database?				
	B)	Write Notes. (Any Two)				06
		1) Why data	Integration is difficult	task?	vomnlog		
		2) Explain the	e i L design with sui	lable e	and data y	warahouso?	
~ ^ ^	۸)	S) What is un			anu uala v	warenouse?	00
Q.3	A)	Answer the fo	t notos on motodata r	(ANY I	woj		08
		2) Explain the	Association Rules	eposit	Jiy.		
		3) Explain the	e design and develop	ment c	of Data Wa	arehouse.	
	B)	Answer the fo	llowing questions	(Δnv T	wo)		06
	υ,	1) Explain ab	out Text Minina.				00
		2) What is the	e purpose of Apriori A	Algorith	m?		
		3) What are t	he different data clea	ning te	chnique e	explain in brief?	
Q.4	A)	Answer the fo	llowing questions.	(Any T	wo)		10
	,	1) Explain the	e smoothing techniqu	es.	,		
		2) Explain the	e Data reduction.				
		3) Explain mi	ning complex types o	of Data			
	B)	Answer the fo	llowing questions.	(Any C)ne)		04
		1) Explain the	e classification in deta	ail.			
		2) Explain the	e Data warehouse pe	rforma	nce issue		
Q.5	Ans	wer the followi	ng questions. (Any	Two)			14
	a)	Extract all rules	s with confidence abo	ove 759	% and sup	port above 25% from	
		the following d	ata:			1	
		Customer	Items	<u> </u>			
		1	orange juice	2, SOD2 window			
		2		dotora			
		3 1	orange juice, dot	araant	soda		
		5	window clean	orgeni,	<u>300a</u> 1a		

- 5window cleaner, sodaFind strong association between them.Explain the OLAP operations in multidimensional model?Explain K- nearest neighbor classification in detail? b)
- C)

Seat	t	Set	Ρ					
	B.C	C.A. (Semester - V) (New) (CBCS) Examination Oct/Nov-2019						
Day & Time	& Date : 03:0	e: Wednesday, 20-11-2019 Max. Marks: 7 00 PM To 05:30 PM	70					
Instru	Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks.							
Q.1	Fill i 1)	in the blanks by choosing correct alternatives given below. of a string is any number of trailing symbols of the string excluding the string itself. a) Suffix	14					
		c) prefix d) proper prefix						
	2)	is collection of elements without repetition.a) alphabetb) stringc) symbold) set						
	3)	Mealy and Moore machine hasTuples. a) 5 b) 6 c) 7 d) 8						
	4)	Every NFA with ε moves has an equivalent a) NFA b) DFA c) both a and b d) none of these						
	5)	 FA with output will be represented by using a) Mealy machine b) Moore Machine c) both a and b d) none of these 						
	6)	Regular Expression is mathematical description of language. a) True b) False						
	7)	δ: QX∑->2 ^Q is the transition function of a) DFA b) NFA c) NFA with ε moves d) none of these						
	8)	Any number of a's followed by any number of b's is denoted by a) a*+b* b) (a+b)* c) a*.b* d) (ab)*						
	9)	In CNF productions in the following form a) A->ABC or A->a b) A->AB or A->a c) A->aA* d) A->AB or A->aA						
	10)	Power set means set of all subsets. a) true b) false						
	11)	The symbols which can be changed is called a) terminal b) non terminal c) symbol d) none of these						
	12)	The productions which contain only one variable both at right side ofproduction and left side of production that productions are calleda) unit productionb) ε-productionc) both a and bd) none of these						

	13)	Regula	r Expression	can perfori	m op	perations.		
		a) uni	ion		b)	concatenati	on	
		c) iter	ration		d)	all of the ab	ove	
	14)	ifr = (a	a + b)*a then	L(r) =	•			
		a) {a,	aa, ba, bba	}	b)	{ε, a, aaa, aba	a,}	
		c) {a,	b, bba, }		d)	$\{\epsilon, a, b, bba, .$	}	
Q.2	A)	Solve a	ny four que	stions fron	n the follov	ving.		08
	,	1) Find	d the languag	ge for the fo	llowing reg	ular express	ion.	
		(0+	11)*(1+00)*			-		
		2) If R	$= \{(0,1), (1,2)\}$	2), (2,3)} is a	a relation in	{0,1,2,3} fin	d its R⁺.	
		3) Des	sign Mealy ma	achine to fi	nd out 1's c	omplement	of a given binary	
		4) Doc	nber. Sign DEA whi	ch accont t	ha languag	o that starts	with a over Σ –	
		4) Des	sign DFA white งโ	ch accept li	ne language		with a over $\Sigma =$	
		5) Wh	at will be the	language w	vhen Regula	ar Expressio	on r=a*b*c*	
	ы)	Selve e			the fellow			00
	в)		ny two ques	t roade strir	n the tollow	ng. n of letters in	o the word 'revnolde'	00
		1) Des & re	cognize those	se strings th	nat contain f	the word 'old	l' as a substring	
		2) Che	eck the follow	ing regular	expression	is equivaler	nt or not.	
		P=(rs+r)*r Q=r(rs+r)*	•	·		
		3) Find	d the context	free gramm	nar for the f	ollowing reg	ular expression.	
		a(a·	+b)*ab(a+b)*	b				
Q.3	A)	Solve a	ny two ques	stions of th	e following	g.		08
		1) Cor	vert the follo	wing gramr	mar to CNF			
		$S \rightarrow$	bA∣aB, A→b	AA∣aS∣a, B-	→aBB bS b)		
		2) Stat	te & explain i		mma. ⊏∧			
		5) 001		2 NI A 10 D	h	C]	
			<u>->n</u>	n n	0	r r		
			a	P	r r	-		
			*r	r	-	p		
	D)	Solvo a		tion from	the followi	na	1	06
	DJ	1) Def	ine FSM De	sian FSM fa	or binary ad	lig. Ider		00
		2) Def	ine DFA. Wri	te a note or	n DFA minir	mization.		
04	۸)	Solve a		tions from	the follow	vina		10
9.4	~)	1) What	at is ambigue	ous gramma	ar. Check w	hether follow	wing grammar is	10
		amt	piguous or no	ot. If Ambigu	Jous, Remo	ove the ambi	iguity.	
		E→	.E+T∣T	U	·			
		T→	T*F F					
		F→	(E) a b.					
		2) Def	ine string, su	ffix of string	, proper su	ffix of string,	, prefix of string,	
		pro	per suffix of s	string.		1.). (.		
		3) Cor	struct FA for	tollowing F	₹E (a+b)*+(a+b)*		
	B)	Solve a	ny one ques	stion from	the followi	ng.		04
		1) Def	ine NFA, NF	Α with ε-mo	ves, Moore	e machine, M	lealy Machine.	
		2) Wri	te a note on s	simplificatio	on of CFG.			

Q.5 Solve any two questions from the following.

- 14
- a) Construct DFA which accept even number of a's and even number of b's.
- b) Find the regular expression by using Ardens Theorm for the given FA.



c) Convert following grammar in GNF.
 S->AB
 A->BS|b
 B->SA|a

Seat No.			Set	Ρ
	B.C	C.A. (Semester - VI) (New) (CBCS) Examination Oct/Nov ADVANCED JAVA	-2019	
Day & Time:	& Date 11:30	te: Friday, 08-11-2019 M 30 AM To 02:00 PM	lax. Marks	: 70
Instru	uction	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.		
Q.1	Fill ir 1)	 in the blanks by choosing correct alternatives. ORM stands for a) Object Relational Model b) Object Relational Mappi c) Object Runnable Model d) None of these 	ng	14
	2)	JSTL stands for JSP Standard Tag Library a) True b) False		
	3)	The prefix of function tag is a) function		
	4)	GenericServlet class comes under package. a) javax.servlet b) javax.servlet.http c) javax.genericservlet d) None		
	5)	POJO Stands fora) Pure Old Java Objectb) Plain Object Java Oldc) Plain Old Java Objectd) None of these		
	6)	<%= %> is the syntax for a) scriptlet tag b) declaration tag c) jsp comment d) expression tag		
	7)	<generator> class is a sub-element of a) generator-id b) assigned c) id d) none of these</generator>		
	8)	Object relational mapping are performed in file. a) hibemate.cfg.xml b) hibernate.hbm.xml c) hibernate.hbm.java d) hiber.hbm.xml		
	9)	is the extension of Deployment Descriptor file in servlet. a) .java b) .web c) .xml d) .class		
	10)	<pre><hibernate-configuration> tag is not a root element of Hibernate-co file.</hibernate-configuration></pre>	onfiguration	١
	11)	a)FalseConfig is the object of class.a)ApplicationConfigb)PageContextc)ServletConfigd)None of these		

	12) <jsp:forword> action element tag forwards the request and response to another resource.</jsp:forword>						
		a) True b) False					
	13)	 interface provides the facility of dispatching the request to another resource it may be html, servlet or jsp. a) Request b) RequestDispatcher 					
	1 1)	c) RequestServiet d) None of these					
	14)	a) javax.servlet b) org.hibernate c) javax.persistence d) none of these					
Q.2	A)	 Answer the following (Any Four) 1) Development Descriptor 2) What is Inversion of Control? 3) Application object 4) Hibernate.cfg.xml 5) What is CGI? 	08				
	B)	 Write Notes on (Any Two) 1) Explain scripting elements in jsp. 2) Explain session object with example. 3) Design a jsp page to display current date and time. 	06				
Q.3	A)	 Answer the following (Any two) 1) Design a servlet page to maintain session using HttpSession. 2) What are the advantages of Spring Framework? 3) Design a jsp page to check given number is strong or not. 	08				
	B)	 Answer the following (Any One) 1) Explain JSP life cycle. 2) Explain Hibernate Architecture in details. 	06				
Q.4	A)	 Answer the following (Any Two) 1) Write a hibernate application using Table per Hierarchy using xml. 2) What is Dependency Injection? Given an example of Injection by constructor. 3) Explain Action elements in jsp. 	10				
	B)	 Answer the following (Any One) 1) Write a program to demonstrate RequestDispatcher interface. 2) Explain PreparedStatement in spring JdbcTemplate. 	04				
Q.5	Ans	wer the following (Any two)	14				
	a)	Write a program to store Employee information such as empid, empname, empsalary, etc. into employee table using Hibernate annotation.					
	b)	Explain spring frame work in detail.					

c) Explain any three JSTL tag library in details.

Seat No.		Set	Ρ
	BC	A (Semester - VI) (New) (CBCS) Examination Oct/Nov-2019 DOT NET TECHNOLOGY	
Day & Time:	Date 11:30	Monday, 11-11-2019 Max. Marks: 7 AM To 02:00 PM	70
Instru	ction	 s: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat labeled diagram if necessary. 	
Q.1	Fill in	the blanks by choosing correct alternatives given below.	14
	1)	a) EcmaScript (anguage in ASP.Net a) EcmaScript (b) VBScript c) PERL (d) JavaScript	
	2)	How do you get information from a form that is submitted using the "post" method?	
		a) Request.QueryString b) Request.Form c) Response.write d) Response.writeln	
	3)	Which object can help you maintain data across users? a) Application object b) Session object c) Response object d) Server object	
	4)	Which of the following ASP.NET object encapsulates the state of the client? a) Session object b) Application object	
	_,	c) Response object d) Server object	
	5)	What is the base class from which all Web forms inherit? a) Master Page b) Page Class c) Session Class d) None of the Above	
	6)	 WSDL stands for? a) Web Server Description Language. b) Web Server Descriptor Language. c) Web Services Description Language. d) Web Services Descriptor Language. 	
	7)	Which of the following transfer execution directly to another page? a) Server.Transfer b) Response.Redirect c) Both A and B d) None of the Above	
	8)	Which method do you invoke on the DataAdapter control to load your generated dataset with data? a) Load () b) Fill () c) DataList d) DataBind	
	9)	When an .aspx page is requested from the web server, the output will be rendered to browser in following format a) HTML b) XML	

Page 1 of 2

	10)	The first event to be triggered in an aspx page is a) Page_Load() b) Page_Init() c) Page_click() d) Page_Unload()	
	11)	How do you register a user control? a) Add Tag prefix,Tag name b) Add Source, Tag prefix c) Add Src,Tagprefix, Tagname d) None of these	
	12)	 To add a custom control to a Web form we have to register with a) TagPrefix b) Name space of the dll that is referenced c) Assemblyname d) All of these 	
	13)	 Which of the following is not a member of ADODBCommand object? a) ExecuteReader b) ExecuteScalar c) ExecuteStream d) None of these 	
	14)	An alternative way of displaying text on web page using a) asp:label b) asp:listitem c) asp:button d) asp:text	
Q.2	A)	 Answer the following questions. (Any Four) 1) Explain the difference between server side and client side code. 2) What is the difference between Server.Transfer and Response.Redirect? 3) Describe session handling in a webform, how does it work? 4) What are the advantages and disadvantages of viewstate? 5) What is the sequence of operation takes place when a page is loaded? 	08
	B)	 Write short notes (Any Two) 1) What are different types of directives in .NET? 2) Explain about web services. What are VSDISCO files? 3) What is the difference between repeater over datalist and datagrid? 	06
Q.3	A)	 Answer the following questions. (Any Two) 1) What is validation summary server control? Where it is used? 2) What is a Dataset? Explain with example. 3) Explain cross-page posting in detail. 	80
	B)	 Answer the following questions. (Any One) 1) Explain about SiteMapData source control. 2) Explain the working of AJAX. 	06
Q.4	A)	 Answer the following questions. (Any Two) 1) Explain the ADO . Net Architecture. 2) Explain DropDownList control with example. 3) Explain SOAP 	10
	B)	 Answer the following questions. (Any One) 1) Explain Custom Validator Control in detail with example. 2) Explain about Connection and Command object in ADO.NET. 	04
Q.5	Ansv a) b)	wer the following questions. (Any Two) What is Proxy in web services? How to create it explain. What is Transaction? How transaction processing achieved using	14

ADO.NET?C) What is theme? How to create theme and skin explain with Example?

Soat						
No.					Set	Ρ
	B.C.	.A. (Semester	- VI) (New) (CBC RECENT TRE	S) E NDS	Examination Oct/Nov-2019	
Day & Time:	Date 11:30	: Thursday, 14-1) AM To 02:00 PI	1-2019 M		Max. Marks	: 70
Instru	ction	s: 1) All question 2) Figures to t	is are compulsory. he right indicate full r	nark	S.	
Q.1	Fill ir 1)	the blanks by o The huge numbe communicate au a) Skynet c) Machine 2	choosing correct alt er of devices connect itomatically, not via h Machine	erna ed to uma b) d)	tives given below. the Internet of Things has to ns. What is this called? Bot 2 Bot Intercloud	14
	2)	in IoT as hardware platfor a) Sensors c) Security	one of the key charac ms and networks.	cteris b) d)	stics, devices have different Heterogeneity Connectivity	
	3)	loT devices are a) Sensors c) Security	naturally vulnerable to	o b) d)	threats. Heterogeneity Connectivity	
	4)	What are the diff a) Open-Sour c) Data Recov	ferent features of Big ce /ery	Data b) d)	a Analytics? Scalability All the above	
	5)	Which of the foll a) Reliability c) Abstraction	owing is essential co	ncep b) d)	t related to Cloud ? Productivity All of the mentioned	
	6)	Cloud computing resources and p a) real c) cloud	g is an abstraction ba resenting them as a ₋	sed b) d)	on the notion of pooling physical _ resource. virtual none of the mentioned	
	7)	Which of the follocomputing?a) Securityc) Scalability	owing is most importa	anťa b) d)	rea of concern in cloud Storage All of the mentioned	
	8)	What license is I a) Apache Lic c) Shareware	Hadoop distributed ur ense 2.0	nder b) d)	? Mozilla Public License Commercial	
	9)	What was Hado a) Java (softw c) Java (progr	op written in? are platform) amming language)	b) d)	Perl	
	10)	Which of the foll a) Define the c	owing is performed by question	y Da b)	ta Scientist? Create reproducible code	
	11)	a) Statisticsb) Data Visua	owing is one of the ke	ey da b) d)	All of the Mentioned Machine Learning All of the Mentioned	
	12)	Whic conc	ch of the following characteristic cerned to data science?	c of big	g data is relatively more	
-----	------------------------------------	--	--	--	---	----
		a) c)	Velocity Volume	b) d)	Variety None of the Mentioned	
	13)	Whic the c	ch of the following step is perfo data?	rmed k	by data scientist after acquiring	
		a) c)	Data Cleaning Data Replication	b) d)	Data Integration All of the mentioned	
	14)	Mac a) b) c)	hine learning is The autonomous acquisition o computer programs The autonomous acquisition o programs The selective acquisition of kn	f know f know owlede	rledge through the use of rledge through the use of manual ge through the use of computer	
		d)	programs The selective acquisition of kn programs	owled	ge through the use of manual	
Q.2	A)	Answ 1) 2) 3) 4) 5)	ver the following questions. (What is Cloud Computing? What is Server Virtualization? Define IOT. What is Green IT? What do you mean by Feature	Any F s in M	our) achine learning?	08
	B)	Write 1) 2) 3)	Notes. (Any Two) Green IT Standards and Eco-L Attributes of Big Data Cloud cube model	abelli	ng	06
Q.3	A)	Ansv 1) 2) 3)	ver the following questions. (What is Big Data and where it Discuss in brief about Cloud e What are the Core Componen	Any T is proo conorr ts of ⊢	wo) duced? nics and benefits. ladoop?	08
	B)	Ansv 1) 2)	ver the following questions. (What is Machine Learning? De details. Write the notes on Statistical n	Any C escribe nodelii	One) Training versus Testing in ng and Probabilistic distribution in	06
Q.4	A)	Ansv 1) 2) 3)	ver the following questions. (Explain in details the role of a What are the Predictive and de Write comparative notes on Ha	Any T Data S escript adoop	wo) Scientist. ive tasks in machine learning? vs Traditional systems.	10
	B)	Ansv 1) 2)	ver the following questions. (What are the essential charact What are the benefits and use	Any C teristic s of D	ne) s of Cloud computing? ata Science?	04
Q.5	Ans [*] 1) 2) 3)	wer th Expla What techn What to Gre	ne following questions. (Any thin in details the architecture of do you mean by virtualization? tologies and architectures. The are the Environmental impacts being IT.	Two) IOT a Expla	nd applications of IOT. ain in details about Virtualization and explain the Holistic Approach	14

			SLR-DR-39	
Seat No.			Set P	
	B.C.	A. (Semester - VI) (New) (CBCS) Examination CRYPTOGRAPHY AND NETWORK SECU	Oct/Nov-2019 JRITY	
Day & Time:	Date 11:30	: Saturday, 16-11-2019 AM To 02:00 PM	Max. Marks: 70	
Instru	iction	s: 1) All questions are compulsory.2) Figures to the right indicate full marks.		
Q.1	Fill ir 1)	the blanks by choosing correct alternatives given be In Cryptography, the original message, before being tran called a) Simple Text	elow. 14 Isformed, is	
		c) Empty Text d) Filled Text		
	2)	The process of transforming plain text to unreadable texta)Decryptionb)Encryptionc)Network Securityd)Information H	t iding	
	3)	A unique piece of information that is used in encryption _a) Cipherb) Plain Textc) Keyd) Cipher		
	4)	The full form of SSL isa) Serial Session Layerb) Secure Socketc) Session Secure Layerd) Series Socket	et Layer Layer	
	5)	Digital signature cannot providefor the messagea) Integrityb) Confidentialityc) nonrepudiationd) Authentication	ງe . / າ	
	6)	In Cryptography, when text is treated at the bit level, each replaced by a) 4 Bits b) 6 Bits c) 8 Bits d) 10 Bits	h character is	
	7)	The keys used in cryptography area) secret keyb) private keyc) public keyd) All of these		
	8)	In public key cryptography, a key that decrypts the mess a) public key b) unique key c) private key d) security key	age	
	9)	Network Security provides authentication and access co a) True b) False	ntrol for resources.	
	10)	 S/MIME stands for a) Standard Multipurpose Internet Mail Extensions b) Secure Multipurpose Internet Mail Extensions c) Secure Multipurpose International Mail Extensions d) Standard Multipurpose International Mail Extensions 		

d) Standard Multipurpose International Mail Extensions

	11)	A di a) c)	gital signature needs a Private-key system Public-key system	b) d)	Shared-key system All of these	
	12)	The a) b) c) d)	digest created by a hash function Modification detection code Modify authentication connection Message authentication control Message authentication cipher	n is r n	normally called a	
	13)	a) c)	is the first step in DES. Key transformation S-box substitution	b) d)	Expansion permutation P-box substitution	
	14)	a) c)	is a block cipher. DES AES	b) d)	IDEA RSA	
Q.2	A)	Ansv 1) 2) 3) 4) 5)	wer the following questions. (A What is Kerberos? What are the What do you mean by cryptosys What is Cryptography? What is mean by Email? Explain the Two security protoco	ny F use tem [*] ols.	f our) s? ?	08
	В)	Write 1) 2) 3)	e Notes. (Any Two) Internet Key exchange Analysis of AES Security Goals			06
Q.3	A)	Ansv 1) 2) 3)	wer the following questions. (A Explain RSA Cryptosystem. Explain the Security of DES. Explain the SSL Message Forma	ny T ats.	wo)	08
	B)	Ansv 1) 2)	wer the following questions. (A What is meant by Ciphers? Expl What is meant by Digital Signatu	n y C ain t ıre?	Dne) he types of ciphers. Explain Attacks on Digital Signatu	06 re.
Q.4	A)	Ansv 1) 2) 3)	wer the following questions. (A Explain the Process and Service Explain services provided by IPS Explain the Structure and Analys	ny T es of Sec. sis o	ʻ wo) the Digital Signature. f DES.	10
	B)	Ansv 1) 2)	wer the following questions. (A Explain the Asymmetric Key Cry Explain the AES Ciphers.	ny C ptog)ne) jraphy.	04
Q.5	Ans a) b)	wer ti Expla Wha	he following questions. (Any T ain the PGP and S/MIME in detail t is mean by SSL? Explain SSL A	vo) rchit	ecture in network security.	14

c) Explain the Integer Arithmetic and Modular Arithmetic in Cryptography.

Seat No.	:	Set	Ρ
	В.0	C.A. (Semester - I) (New) (CBCS) Examination Oct/Nov-2019 BASICS OF WEB PROGRAMMING – I (Paper – I)	
Day & Time:	& Date : 03:0	e: Friday, 15-11-2019 Max. Marks: 0 PM To 05:00 PM	40
Instru	uctio	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Fill i 1)	 in the blanks by choosing correct alternatives given below. HTML stands for? a) Hypertext Markup Language b) High text Markup Language c) Hyper Tabular Markup Language d) None of the above 	08
	2)	Correct HTML tag for the largest heading is a) <head> b) <h6> c) <h1> d) <heading></heading></h1></h6></head>	
	3)	<dt> tag is designed to fit a single line of our web page but <dd> tag will accept a a) Line of text b) Full Paragraph c) Word d) Request</dd></dt>	
	4)	Which of the tag is used to creates a number list? a) b) c) & d) None of the above	
	5)	 Who is making the Web standards? a) Google b) Microsoft c) The World Wide Web Consortium d) None of the Above 	
	6)	CSS stands fora) Colour style Sheetb) Creative Style Sheetc) Computer Style Sheetd) Cascadinding Style Sheet	
	7)	 What is the Correct HTML for referring External Linking? a) < link rel= "style sheet" type ="text/css" href="mystyle.css"> b) <style src=" mystyle.css"></style>	

Page 1 of 2

SLR-DR-4

Q.3 Write short notes. (Any Two)

- a) GET and POST Method
- **b)** Selectors and Properties of CSS
- c) Applications of Internet

Q.4 Answer the following questions. (Any Two)

- a) Explain any 4 tags from following with example.
 - 1) section
 - 2) Article
 - 3) header
 - 4) footer
 - 5) Figure
- **b)** Write HTML code to display the Ordered List and Unordered list.
- c) Explain Image Tag with example.

Q.5 Answer the following questions. (Any One)

Write a program using HTML to display following table.

Roll No	No Name Clas		Marks			
	Namo	Clabo	S1	S2	S3	

OR

Q.5 What is CSS? Explain types of CSS with suitable example.

08

08

language interpreting other language program A language compiling other language program A language compiles itself Process b) Instruction d) Function Procedure Absolute mode b) Immediate mode Indirect mode Index mode d) Which of the following are language processors? assembler compilers b) interpreter d) all of these binary code hex code b) **Mnemonics** d) ASCII code Which of the following might be used to convert high-level language system software applications software b) an operating environment d) an interpreter programming language instruction b) machine language instruction d) One pass b) two pass three pass d) load and go Pass 1 b) Pass 2 not evaluated by the assembler d) None of above

Translator for low level programming language was termed as? 10) Assembler b) Compiler

a) d) Loader Linker c)

Seat No.

B.C.A. (Semester - VI) (New) (CBCS) Examination Oct/Nov-2019 SYSTEM PROGRAMMING

Day & Date: Saturday, 16-11-2019 Time: 11:30 AM To 02:00 PM

1)

7)

9)

a) C)

Instructions: 1) All questions are compulsory.

- 2) Figures to the right indicate full marks.
- 3) Draw neat labeled diagram, flowchart if necessary.

Q.1 Fill in the blanks by choosing correct alternatives given below.

- What is bootstrapping?
 - a)
 - b)
 - C)
 - d) All of above

a)

c)

- 2) A program in execution is called _____
 - a)
 - c)
- 3) In which addressing mode the operand is given explicitly in the instruction?
- 4)
 - a)
 - c)
- 5) Assembly language uses _____.
 - a)
 - c)
- 6) instructions into machine language?
 - a)
 - C)
 - Operation code field is present in
 - a)
 - C)
- Which of the following is not a type of assembler? 8)
 - a)
 - c)
 - In a two pass assembler the pseudo code EQU is to be evaluated during?

SLR-DR-40

Set

Max. Marks: 70

- assembly language instruction
- none of the mentioned

- 11) In a two-pass assembler, the task of the Pass II is to?
 - a) separates the symbol, mnemonic opcode and operand fields
 - b) build the symbol table
 - c) construct intermediate code
 - d) synthesize the target program
- 12) TII stands for ____
 - a) Table of incomplete instructions
 - b) Table of information instructions
 - c) Translation of instructions information
 - d) Translation of information instruction
- 13) The translator which perform macro expansion is called a?
 - a) Macro processor b) Macro pre-processor
 - c) Micro pre-processor
- d) assembler

- 14) A macro is?
 - a) a small program inside a program
 - b) set of special instructions
 - c) A unit of specification for program generation through expansion
 - d) None of these

Q.2	A)	Answer the following question.(Any Four)
		1) Distinguish hotus on Compiler and Interpreter

- Distinguish between Compiler and Interpreter.
 State difference between machine language and high lavel k
- 2) State difference between machine language and high level language?
- 3) State the Lexical and Syntax phase of compiler?
- 4) Draw a labeled diagram of general loading scheme.
- 5) Write in brief about any two components of system software.

Q.2	B)	 Write Notes on. (Any Two) 1) What is bottom-up parsing? 2) What is loader? 3) What is Macro? 	06
Q.3	A)	 Answer the following question.(Any two) 1) What is Syntactic analysis? Explain in brief. 2) What is binary search? Explain with an example. 3) Define the term Assembler and compiler. 	80
Q.3	B)	 Answer the following question.(Any One) 1) Draw the flowchart for pass 2 of a two pass assembler. 2) Draw the block diagram of the phases of compiler. 	06
Q.4	A)	 Answer the following question.(Any Two) 1) Describe the four tasks performed by Macro-processor. 2) Describe the design of absolute loader. 3) Define Parser. Draw the parse tree for the string abbccd. 	10
Q.4	B)	 Answer the following question.(Any One) 1) Explain the direct linkage loader. 2) Explain the conditional macro expansion. 	04
Q.5	Ans a)	wer the following question.(Any two) Describe the databases used in lexical, syntactic and Semantic phases of compiler.	14
	h)	Write a short note on design of assembler	

- **b)** Write a short note on design of assembler.
- c) Explain different data structures used by Phase-II assembler.

	-		
Seat No.		Se	et P
	В.С	C.A. (Semester - I) (New) (CBCS) Examination Oct/Nov-2019 SOFTWARE ENGINEERING – I (Paper - II)	
Day & Time:	& Date 03:00	e: Monday, 18-11-2019 Max. Ma 0 PM To 05:00 PM	rks: 40
Instru	uctior	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Fill in 1)	n the blanks by choosing correct alternatives given below.The first step in Software Development Life Cycle isa) Preliminary Investigationb) System Designc) System Testingd) System Coding	80
	2)	Which model can be selected if user is involved in all the phases of SDLCa) Waterfall modelb) Prototyping modelc) RAD modeld) None of these	?
	3)	includes a review of the existing procedure and information flow.a) Feasibility studyb) Feasibility reportc) System analysisd) System design	
	4)	Which of the following is not related with system analyst?a) Collection of requirementb) User trainingc) Creating modeld) Programming	
	5)	Weather forecasting is an example of a) Deterministic	
	6)	Problem identification is done during phase.a) System designb) System analysisc) System testingd) All of the above	
	7)	The inter-connections & interaction between the subsystems are called as	;
		a) Environment links b) Connecting links c) Interfaces d) Control lines	
	8)	Which of the following model is not suitable for accommodating any changes?	
		a) Prototypingb) Spiralc) Waterfalld) None of these	
Q.2	Ansv 1) 2) 3) 4) 5) 6)	wer any four of the following questions. Define the term System. What is System analysis? Define Deterministic and Probabilistic system. What are the steps in prototyping model? Write the characteristics of system. Who is 'System Analyst'?	08

Q.3	 Write short notes. (Any Two) 1) Feasibility study. 2) Characteristics of the software. 3) Elements of the system. 	08
Q.4	 Answer any two of the following questions. 1) Differentiate between the System Analysis and System Design. 2) Explain the various roles played by the system analyst. 3) Explain the waterfall model. 	08
Q.5	 Answer any one of the following questions. 1) Explain the various Fact finding techniques in detail. 2) Explain different phases of System Development Life Cycle. 3) Explain any four qualities of software. 	08

			SLR-DR	2-6
Seat No.			Set	Ρ
	В.С	C.A. (Semester - I) (New) (CBCS) Examination Oct/Ne BASICS OF MATHEMATICS – I (Paper - I)	ov-2019	
Day & Time:	03:00	e: Wednesday, 20-11-2019 0 PM To 05:00 PM	Max. Marks	: 40
Instru	uctior	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.		
Q.1	Fill ii 1)	n the blanks by choosing correct alternatives given below.A square matrix $A = [a_{ij}]$ is said to be an upper triangle matrix iffa) $a_{ij} = 0$, for $i > j$ b) $a_{ij} = 0$, for $i < j$ c) $a_{ij} \neq 0$, for $i > j$ d) $a_{ij} = 0$, for $i \neq j$		08
	2)	If $A = [a_{ij}] m \times n$ and $B = [b_{ij}] n \times p$ be the two matrices then orderproduct matrix $A \cdot B$ isa) $m \times n$ b) $n \times p$ c) $p \times m$ d) $m \times p$	of resultant	
	3)	If $A = \{a, b, c, d, e\}, B = \{x, y, z\}$ then cardinality of the set $A \cap B$ isa) \emptyset b) 8c) 0d) cannot be determined	 d	
	4)	If no element of set A is related to any element of set B then the is called as relation.a) universalb) unique d) symmetric	e relation R	
	5)	The converse of the statement $p \leftrightarrow q$ is a) $\sim p \rightarrow \sim q$ b) $q \rightarrow p$ c) $\sim q \rightarrow \sim p$ d) $\sim (p \rightarrow q)$		
	6)	In logic $p \land (q \land r) = (p \land q) \land r$ is law.a) Distributiveb) Commutativec) DeMorgan'sd) None of these		
	7)	 The truth value of the statement p→q is true if and only if a) Both statements p and q have different truth values. b) Both statements p and q have same truth values. c) p is true and q is false d) q is true and p is false. 	<u>.</u>	
	8)	A matrix which is obtained by interchanging rows and columns i matrix.	s called as	

a) symmetricb) anti-symmetricc) transposed) skew-symmetric

08

Q.2 Answer any four of the following questions.

- 1) Define scalar matrix with suitable example.
- 2) Let $A = \begin{bmatrix} -1 & 3 \\ 4 & 5 \end{bmatrix}_{2 \times 2}$ and $B = \begin{bmatrix} 3 & -2 \\ 0 & 1 \end{bmatrix}_{2 \times 2}$ then find the matrix A + B and A B.
- 3) Define equivalence relation.
- 4) State DeMorgan's Laws in logic.
- 5) Let $A = \{a, b, c, d\}$ and $B = \{p, q, r\}$ then find the Cartesian product $A \times B$ and $B \times A$.
- 6) Define complement of set A.

Q.3 Answer any two of the following questions.

- 1) Prepare truth table for the statement $p \rightarrow q$, it's converse, it's inverse and contrapositive form.
- 2) Let $A = \begin{bmatrix} 2 & 1 \\ -3 & 4 \\ 0 & -2 \end{bmatrix}_{3 \times 2}$ and $B = \begin{bmatrix} 0 & 2 & -1 \\ -2 & 3 & 5 \end{bmatrix}_{2 \times 3}$

Find the product matrix $A \cdot B$.

3) Let A = {a, b, c, d}. Let R be the relation defined on the set A given by R = {(a, a), (a, b), (c, a), (c, d), (b, a), (b, b), (d, a), (d, b), (d, d)}. Write matrix of relation R. Also draw digraph of R. Also write in-degree and out-degree of each element in A.

Q.4 Answer any two of the following questions.

- 1) Let $U = \{a, b, c, d, e, f, g, h, i, j\}$. Let $A = \{a, c, d, f, g\}$ and $B = \{b, c, d, e, h, j\}$ be the subsets of set U, Then write the following sets $A \cup B, B', A B, A \oplus B$.
- 2) Show that $\sim (p \lor q) \equiv \sim p \land \sim q$.
- 3) Define symmetric matrix and lower triangular matrix with suitable example.

Q.5 Answer any one of the following questions.

- 1) Define transitive closure of relation. Let $A = \{1,2,3,4\}$. Let R be the relation defined on the set A given by $R = \{(1,1), (1,2), (2,3), (3,4), (3,3), (4,1)\}$. Find transitive closure of relation R by using Warshall's algorithm. Also draw digraph of R*.
- 2) State distributive laws in logic. Determine whether the following statement is tautology or contradiction or neither.

 $[(p \wedge q) \rightarrow \sim r] \ \leftrightarrow \ \sim [(p \rightarrow \sim q) \ \lor \ (\sim p \leftrightarrow r)].$

08

08

Seat No.		Set	P
	В	C.A. (Semester - I) (New) (CBCS) Examination Nov/Dec-2019 Science (Paper – II) STATISTICAL METHODS - I	
Day & Time:	& Da 03:	e: Friday, 22-11-2019 Max. Mai 00 PM To 05:00 PM	'ks: 40
Instru	uctio	ns: 1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	Ch (1)	ose most correct alternative. Testing of blood is done by method. a) Census b) Sampling c) Stratified sampling d) None of these	08
	2)	A variable is said to be continuous of it takes no. of values. a) Finite b) Countable infinite c) Uncountable infinite d) None of these	
	3)	Histogram is used to determine a) A.M. b) Median c) Mode d) All of these	
	4)	To obtain a measure of central tendency it is necessary to arrange the data in ascending or decending order. a) A.M. b) Median c) Mode d) All of these	;
	5)	A measure of dispersion that based on all observations is a) S.D. b) Range c) Coefficient of range d) None of these	
	6)	If two variables are changes in same direction, then there is correlatio a) +ve b) -ve c) Non-linear d) None of these	n.
	7)	The line of regression Y on X is used to estimate a) Y for known value of X b) X for known value of Y c) (a) and (b) both d) None of these	
	8)	 The empirical relation between A.M., median and mode is a) (A.M. – Mode) = 3 (A.M. – Median) b) (A.M. – Median) = 3 (A.M. – Mode) c) (Mode – Median) =2 (A.M. – Median) d) None of these 	
Q.2	An: 1) 2) 3) 4) 5) 6)	wer any 4 of the following. Define – Population and sample. Define – Positive and negative correlation. Define – Regression. The A.M. of observations – 30, 28, 38, 22, K, 25 is 30. Find value of K. Find range and coefficient of range for the data: 20, 17, 14, 28, 15, 27, 21. The regression coefficient are $b_{yx} = 08$ and $b_{xy} = 1.4$. Find correlation coefficient between X and Y.	08

Q.3 Write short note on any 2 of the following

- 1) Simple Random Sampling method
- 2) Merits and Demerits of A.M.
- **3)** Lines of regression.

Q.4 Answer any two of the following questions.

1) Find median for the data given below.

		0			
Class:	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30
f :	4	6	13	8	3

2) Find S.D. and range for the data given below.

x :	4	6	8	10	12
f :	2	5	9	6	3

3) Given - n = 10, $\Sigma X = 100$, $\Sigma Y = 110$, $\Sigma X^2 = 1100$, $\Sigma Y^2 = 1440$, $\Sigma XY = 1230$ Find correlation coefficient between X and Y.

Q.5 Answer any one of the following questions.

1) Draw histogram to represent the following data and obtain mode.

	-						
Class :	25 - 40	40 - 55	55 - 70	70 - 85	85 - 100	100 - 115	115 - 130
f :	10	14	18	22	20	13	9

2) The equations of line of regression are 8x - 10y = 40 and 15x - y = 0. Find

a)	V	\overline{v}
\sim ,	~ ~	

b) $\sum xy$

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No.			561
	В.(C.A. (Semester - I) (Ne DIGITAL E	w) (CBCS) Examination Nov/Dec-2019 LECTRONICS PAPER - I
Day Time	& Dat : 03:0	e: Monday, 25-11-2019 0 PM To 05:00 PM	Max. Mark
Instr	uctio	ns: 1) All questions are concentrations2) Figures to the right in	npulsory. ndicate full marks.
Q.1	Cho 1)	ose the correct alternative 4 to 1 MUX would have _	es from the options and rewrite the sentence.
	·	a) 2 inputs c) 4 inputs	b) 3 inputs d) 5 inputs
	2)	Most demultiplexers work a) Decimal to Hexa c) AC to DC	on following conversions. b) Single input, multiple output d) None of these
	3)	Converting binary numbe a) 101101 c) 110111	[.] into gray code 100101. b) 001110 d) 111001
	4)	Which input values will ca output? a) At least one input is c) All inputs are LOW	use an AND logic gate to produce a HIGH HIGH b) All inputs are HIGH d) At least one input is LOW
	5)	In which operation carry i a) Subtraction c) Multiplication	b) Addition d) Both a & b
	6)	The Boolean expression a) NAND c) AND	(AB)' is logically equivalent to which gate?b) NORd) OR
	7)	Which of the following ex a) (A+B)(C+D) c) A*B + C*D	bression is in the sum-of-product form? b) (A*B)(C*D) d) None of these
	8)	2's complement of 11001 a) 01010111 c) 00110101	011 is b) 11010100 d) 11100010
Q.2	Atte 1) 2) 3) 4) 5)	mpt any four of the follow Why hexadecimal number Which gates are called un Define Nibble & byte. Define Multiplexer. What is binary number sys	ring question. system called as alpha numeric number system? versal gates & why? tem?

Explain how to convert Gary to Binary code. 6)

Write short notes. (Any Two) Q.3

- Explain steps of converting binary to hexadecimal conversion with example. 1)
- 2) Explain half adder.
- What are the applications of multiplexer? 3)

Set Ρ

SLR-DR-8

rks: 40

08

Seat

Q.4 Attempt any two of the following questions.

- a) Explain full subtractor.
- **b**) Define logic gates with its symbol & truth table.
- c) Explain De-Multiplexer with its type.

Q.5 Attempt any one of the following questions.

- a) Explain K-map & its types in detail with example.
- **b)** Explain 3 bit asynchrous counter.

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		SL	R-DR	2-9				
Sea No.	t		Set	Ρ				
B.C.A. (Semester - I) (New) (CBCS) Examination Nov\Dec-2019 Development of Human Skills (Paper - II)								
Day o Time	& Dat : 03:0	te: Wednesday, 27-11-2019 Max 00 PM To 05:00 PM	k. Marks	: 40				
Instr	uctio	ons: 1) All questions are compulsory.2) Figures to the right indicate full marks.						
Q.1	Fill i 1)	in the blanks by choosing correct alternatives given below.Bad parts of personality can be termed as of the personality.a) Weaknessb) Threatc) Strengthd) Opportunity		08				
	2)	Oral communication is also known as communication. a) one way b) non-verbal c) verbal d) Interactive						
	3)	A settled way of thinking or feeling about something meansa) Behaviourb) Personalityc) Attituded) Communication						
	4)	Which of these must be avoided in a group discussion?a) Speaking factsb) Asking questionsc) Speaking fastd) Speaking with clarity						
	5)	skills are assessed in an Interview. a) Listening b) singing c) dancing d) Blabbering						
	6)	 A letter is a synonymous to rejection letter and decline letter. a) Inquiry b) Invitation c) Refusal d) Job acceptance 						
	7)	The blog is an ongoing online diary or commentary written by individual, rather than a corporation or organization. a) Travel b) Personal c) Cultural d) Fashion	an					
	8)	has been ranked as no. 1 Indian multinational IT Firm which generate it's revenue from various domains. a) Infosys b) Tech Mahindra c) Wipro d) TCS						
Q.2	Atte a) b) c) d) e) f)	empt any four of the following question. Define fashion Blog. Full from of IBM. Define group discussion. What is posture? What is a story writing? Define public speaking.		08				
Q.3	Writ a) b) c)	ite short notes (any two) Personality traits Types of Attitude Microsoft corporation		08				

80

80

Q.4 Attempt any two of the following questions.

- a) Write a job application letter for the post of 'Sales Manager' in Satyam Corporation Pune.
- **b)** Explain the concept of SWOT analysis.
- c) What is the presentation skills and it's importance? In brief.

Q.5 Answer the following questions. (any one)

- a) What is meant by interview? Explain the types of Interview.
- **b)** Explain types of letters in brief and draw the Lay-out of a Business Letter.