Max. Marks: 70

Seat No.

# B.C.A. (Semester – I) (Old) (CGPA) Examination, 2017 INTRODUCTION TO INFORMATION TECHNOLOGY

Day & Date: Tuesday, 11-04-2017

Time: 10.30 AM to 01.00 PM

#### N.B. : 1) Q.1 and Q.7 are compulsory.

- 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt any one question from Q. 5 and 6.
  - 4) Figures to the right indicate full marks.

#### Q.1 A) Select the single correct alternatives:

- 1) A program is a sequence of \_\_\_\_\_ written in a programming language. a) Code word b) Function a) Instruction d) None of these

- 2) One millisecond is \_\_\_\_\_
- a) 1 second is \_\_\_\_\_ c) 1000<sup>th</sup> of a seconds d) 1000<sup>th</sup> of a seconds
- Which computer memory is used for storing programs and data currently being processed by the CPU
  - a) Mass memory c) PROM
- b) Internal memory d) Non-volatile memory.
- 4) The translator program used in assembly language is called
  - a) complier c) translator
- b) interpreter d) Assembler
- 5) The octal equivalent of 111111 is

	ie oblai equivalent or	
a)	72	b) 77
C)	76	d) 78

- 6) The transistorized computer circuits were introduced in the
  - a) First generationb) Second generationc) Third generationd) Fourth generation
- 7) In Internet, the device used to connect two or more network is a
  - a) SNMP b) Telnet
  - c) Routers d) None of these

Q.1	<ul> <li>B) Fill in the blanks: <ol> <li>UNFVAC stands for</li> <li>EEPROM stands for</li> <li>Communication take place between objects called</li> <li>Communication take place between objects called</li> <li>is most popular and effective pointing devices for GUI application.</li> <li>The time sharing executes process according to</li> <li>The speed of a dot matrix printer is measured in</li> <li>measured in</li> </ol> </li> <li>The speed of a dot matrix printer is measured in</li> </ul>	07
Q.2	<ul> <li>Write answer of the following questions (Any two)</li> <li>1) Define the computer generation. Explain the fifth generation of computer.</li> </ul>	07
	2) Define operation system. Explain different functions of operation	07
	system. <ol> <li>Define scanner. Explain the different types of scanner.</li> </ol>	07
Q.3	<ul> <li>Write answer of the following questions (Any two)</li> <li>1) What is secondary memory? Explain magnetic disk in details.</li> <li>2) What is printer? Explain printing mechanisms of Laser Printer.</li> <li>3) Carry out the following conversions. (Any two) <ul> <li>i) (596)<sub>10</sub> = (?)<sub>8</sub></li> <li>ii) (1101011.1010)<sub>2</sub> = (?)<sub>10</sub></li> <li>iii) (2B.C4)<sub>16</sub> = (?)<sub>10</sub></li> </ul> </li> </ul>	07 07 07
Q.4	<ul> <li>Write answer of the following questions (Any two)</li> <li>1) What is computer viruses? Explain the characteristics of viruses.</li> <li>2) Define computer language? Explain Analogy with natural language.</li> <li>3) What is computer? List out different types of computer? Explain types of computer according to Logic?</li> </ul>	07 07 07
Q.5	<ol> <li>What are the factors which should while purchasing the computer?</li> <li>Explain the Time Sharing System and Real Time System in details.</li> </ol>	07 07
Q.6	<ol> <li>Draw the block diagram of computer? Explain in details all its functional units.</li> <li>What is network topology? Explain the different types of network topology.</li> </ol>	07 07
Q.7	Write short notes on (Any Two) 1) ASCII and BCD Code 2) OMR & MICR 3) Plotter	14

Q.1

# B.C.A. (Semester – I) (Old) (CGPA) Examination, 2017 PROCEDURAL PROGRAMMING THROUGH 'C'

Day & Date: Thursday, 13-04-2017

Max. Marks: 70

07

Time: 10.30 AM to 01.00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory. 2) Attempt any two questions from Q. 2, 3 and 4. 3) Attempt any one question from Q. 5 and 6. **Choose correct alternatives: A**) 1) \_\_\_\_\_ is minimum range value of data type having size 8 bits. a) 32768 b) -128 c) -32767 d) 127 2)  $\_$  Operator is also called 'Dereferencing operator'. a) & b) % c) \* d) + 3) \_\_\_\_\_ function allows dynamic memory allocation.
   a) malloc()
   b) calloc()
   c) both a & b
   d) getch() 4) (is/are) derived data types in 'C' language.
  a) Array
  b) Pointer
  c) Structure
  d) Both a & b 5) Pass by\_\_\_\_\_ is default parameter passing technique in 'C' language. a) Value b) Pointer c) Address d) Reference 6) What is the output of following 'C' code: void main () { int a=75; float \*p; p = & a;printf ("%f", \*p);
  - a) 75 b) 75.0000 c) Both a & b d) Compile time error
  - 7) \_\_\_\_\_ is valid keyword used in 'C' language. a) Array b) Pointer c) struct d) All of these
- Q.1 B) State whether True or False:

}

- 1) 'C' language was developed by 'Ken Thompson'.
- 2) fopen() function belongs to stdio.h header file.
- Using pointer we can access only address of another variable.
- 4) Parameters used at function call are called as actual parameter.

Q.1	<ul> <li>C) Fill in the blanks:</li> <li>1) is collection of homogenous elements.</li> <li>2) function is used to read single integer value from file.</li> <li>3) variables are accessible everywhere in program.</li> </ul>	03
Q.2	<ul> <li>Write answer of the following questions (Any two)</li> <li>1) What is Pointer? List out its characteristics and write a program to print array elements by using pointer.</li> <li>2) Write a program that checks entered number is Perfect or not using function without argument with return value.</li> <li>3) Explain 'switch' statement with one example.</li> </ul>	14
Q.3	<ul> <li>Write answer of the following questions (Any two)</li> <li>1) Write a program that demonstrates the use of <u>array of structure</u>.</li> <li>2) What is String? Explain strrev() and strcat() functions with example.</li> <li>3) Write a program that finds octal equivalent number of entered number.</li> </ul>	14
Q.4	<ul> <li>Write answer of the following questions (Any two)</li> <li>1) What is array? Explain all types of array in detail.</li> <li>2) Write a program that finds smallest number between four numbers.</li> <li>3) Write a program that prints following pattern: (Use 'for' loop) <ul> <li>1</li> <li>2</li> <li>1</li> <li>3</li> <li>2</li> <li>1</li> <li>4</li> <li>3</li> <li>2</li> <li>1</li> </ul> </li> </ul>	07
Q.5	<ol> <li>What is Runtime memory allocation? Explain malloc() and free() functions with suitable example.</li> <li>Write a program that demonstrates the difference between structure and union.</li> </ol>	07 07
Q.6	<ol> <li>Explain different parameter passing techniques used in 'C' language.</li> <li>What is operator? Explain ternary, bitwise and sizeof operator in detail</li> </ol>	07 07
Q.7	<ul> <li>Write short notes on (Any Two)</li> <li>1) Flowchart</li> <li>2) Keywords and Identifier</li> <li>2) Filmentation of the state of the state</li></ul>	14

3) File and its different opening modes.

# B.C.A. (Semester – I) (Old) (CGPA) Examination, 2017 FUNDAMENTALS OF FINANCIAL ACCOUNTING

Day & Date: Monday, 17-04-2017

Time: 10.30 AM to 01.00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2. 3 and 4.
  - 3) Attempt any one question from Q. 5 and 6.
  - 4) Figures to the right indicate full marks.
  - 5) Use of calculator is allowed.

#### Select the correct alternatives: Q.1 A)

- 1) LIFO stands for
  - a) Last In First Out
  - c) Least In First Out
- b) Last In Firm Out
- d) None of the above

#### 2) Debit the expenses and losses and Credit the incomes and gains is a rule of

a) Real account

- b) Nominal account
- c) Personal account d) None of the above

#### 3) Fixed assets are valued at cost less

- a) Expenses b) Selling price
- c) Depreciation
- d) Repairs
- 4) When salary paid in cash \_\_\_\_\_\_ amount is credited. b) Cash a) Salary
  - d) Profit and Loss account c) Employees
- Carriage inward is debited to the \_\_\_\_\_
  - a) Trading account b) Profit and Loss account
  - c) Cash account d) Capital account
- 6) \_\_\_\_\_ is an explanation of the journal entry passed.
  - a) Transaction b) Voucher
  - d) Narration c) Invoice
- 7) Closing stock appears on \_\_\_\_\_\_ side of Balance Sheet.
  - b) Assets
  - a) Liabilities c) Income d) Expenditure

Max. Marks: 70

Q.1	B)	<ol> <li>An amo</li> <li>A list of Journal.</li> <li>FIFO is</li> <li>Trade d</li> <li>Accrual</li> <li>Amount as capit</li> </ol>	a method of charging depreciation. iscount is not recorded in the books of acc is a fundamental accounting assumption. withdrawn from business for personal use	count. ed as count.	07
Q.2	1) E 2) N	Difference b	<b>tes (Any two)</b> etween book keeping and accountancy. nventory valuation concept		14
Q.3	Jou Co.		following transactions in the books of	Shankar &	14
	201			Rs.	
	June June June June June	e 2 e 4 e 6 e 6	Started business with a capital of Paid into bank Purchased goods from Kamal on credit Paid to Shiram Discount allowed by him Cash Sales Sold to Hameed Purchased goods from Bharat on credit Paid Salaries Cash received from Prem Allowed him discount Withdrew from bank for office use Withdraw for personal use Paid Hanif by cheque		
Q.4	A)	1) Merits a Deprec	accounting and explain internal and exterr		07
	B)	<ul> <li>appear in the bare</li> <li>1) The bare</li> <li>₹6,340.</li> <li>2) Interest</li> <li>2011 ₹1</li> <li>3) Bank che</li> <li>4) Cheque</li> </ul>	blowing particulars ascertain the balance to the Bank Pass Book of A on 31 <sup>st</sup> Decembe nk overdraft a per Cash Book on 31 <sup>st</sup> Dece to on overdraft for 6 months ending 31 <sup>st</sup> Dece 160 is entered in Pass Book. Tharges of ₹30 are debited in Pass Book en thes issued but not cashed prior to 31 <sup>st</sup> Dece to \$1,168.	r, 2011. ember, 2011 cember, itry.	<b>07</b> of <b>3</b>

	Dece 6) Intere	ues paid into bank but not c mber, 2011 were for ₹2,170 est on investments collected ass Book ₹1,200.			- 0
Q.5		s of Accounting. between Journal and Ledge	er.		07 07
Q.6	The followin	g are the details of a spare	e part of Sriram	mills:	14
	1-1-2011 1-1-2011 15-1-2011 1-2-2011 15-2-2011 20-2-2011	Issued for consumption Purchases Issued for consumption	Nil 100 units @ ₹ 50 units 200 units @ ₹ 100 units 100 units		
		value of Inventory as on 31-3 n first out basis.	3-2011 if the con	npany	
Q.7	Mr. Mohan gi information.	ves you the following trial ba	lance and some	e other	14
		Trial Balance as on 31 <sup>s</sup>	•	<b>C</b> -	
			Dr. ₹	Cr. ₹	
	Capital Sales			6,50,000 9,70,000	
	Purchases	anton	4,30,000 1,10,000		
	Opening Invo Freights Inwa	-	40,000		
	Salaries		2,10,000		
		istration Expenses	1,50,000		
	Furniture	ables and Trade payables	3,50,000 2,10,000	1,90,000	
	Returns	ables and Trade payables	20,000	12,000	
	Discounts		19,000	9,000	
	Bad debts	in Covernment Cooverities	5,000		
		in Government Securities d and Cash at Bank	1,00,000 1,87,000		
	Cash in Han	u ahu Gash al Dahk	1,07,000		
		u anu Casil at Dalik	18,31,000	18,31,000	

### **Other Information:**

- 1. Closing Inventory was ₹1,80,000;
- 2. Depreciate Furniture @ 10% p.a.

You are required to prepare Trading and Profit and Loss Account for the year ended on 31.3.2011 and Balance Sheet of Mr. Mohan as on that date.

# B.C.A. (Semester – I) (Old) (CGPA) Examination, 2017 **BUSINESS COMMUNICATION**

Day & Date: Wednesday, 19-04-2017

Max. Marks: 70

10

Time: 10.30 AM to 01.00 PM

**N.B.**: 1) Q.1 and Q.7 are compulsory.

2) Attempt any two questions from Q. 2, 3 and 4.

3) Attempt any one question from Q. 5 and 6.

## Q.1 A) Rewrite the following questions by choosing correct alternatives:

- 1) Open door police is the method of communication.

- a) Upwardb) Downwardc) Horizontald) None of the d) None of these
- 2) contains name and address of a company.
  - a) Body of the letter b) Subject c) Letter head d) Reference
  - c) Letter head

- 3) \_\_\_\_\_is an informal channel of communication in the organization.
  - a) Vertical

- b) Horizontal
- a) verticalc) Grapevine d) Consensus
- 4) \_\_\_\_\_is an example of electronic communication.
  - a) Letter b) Email
  - c) Memo d) Notice
- 5) The function of the receiver is to the message.
  - a) Encoding b) Decoding
  - c) Send d) None of these
- The list of the subjects to be discussed in a meeting is called
  - a) Notice b) Agenda
  - c) Minutes d) Memo
- 7) classifies grapevine communication in to four types.
  - a) Keith devis b) Newman c) Scott
    - d) Springel
- 8) Wrong interpretation of words is known as \_\_\_\_\_ barrier.
  - a) Physical
- b) Semantic
- c) Scio-psychological d) Cross-cultural

		SLR-U	- 4
		<ul> <li>9) The communication flows from bottom to top level in the organization is called</li> <li>a) Downward b) Upward</li> <li>c) Horizontal d) Grapevine</li> </ul>	
		10) Doing communicationis/are important.a) Senderb) receiverc) sender and receiverd) media	
Q.1	B)	<ul> <li>Write whether the following statements True or False:</li> <li>1) Communication is the life of blood of any business.</li> <li>2) Capital letter is used lasting the sentence.</li> <li>3) Encoding is function of receiver.</li> <li>4) Gesture is an example of non-verbal communication.</li> </ul>	04
Q.2	a) b) c) '	ite the answer of the following questions (Any two) Explain the communication process with the help of neat diagram. What is mean by meeting and write kinds of meeting? What do you mean by barriers and explain physical (external) barriers.	14
Q.3	a) ' b)	<b>ite the answer of the following questions (Any two)</b> Write the parts of business letter. Recipient's point of view (You attitude) Write principles of communication (7 'c')	14
Q.4	a)   b)   c) '	<b>ite answer of the following questions (Any two)</b> Mechanism of writing explains punctuation marks? Explain grapevine communication. What is mean by downward communication? Explain four importance.	14
Q.5	a) `	swer the following questions. Young energetic fresh graduates required for sales and accounts work in our group of company write application letter of Laxmi boards Ltd, AB Chambers, 16 dalal street, Mumbai 400 001 Write the bio-data/resume for above application letter.	14
Q.6	a) ' b) '	<b>swer the following questions.</b> Write types of communication in detail. Write an enquiry letter to central marketing organization about stationary material and their quotation.	14
Q.7	a)   b)	<b>ite short notes on the following (Any two)</b> Horizontal communication Modern office communication Write four objectives of communication	14

d) Internet

# B.C.A. (Semester – I) (Old) (CGPA) Examination, 2017 DISCRETE MATHEMATICS

Day & Date: Friday, 21-04-2017

Time: 10.30 AM to 01.00 PM

## **N.B.**: 1) Q.1 and Q.7 are compulsory.

- 2) Attempt any two questions from Q. 2, 3 and 4.
- 3) Attempt **any one** question from Q. **5** and **6**.
- 4) Use of *calculator* is allowed
- 5) Figures to the **right** indicate **full** marks.

### Q.1 A) Choose the correct alternatives:

- Conjunction of the statements p and q is true if and only if both the statements p and q are \_\_\_\_\_.
   a) true b) false c) true of false d) true and false
- 2) Let  $A = \{x | x \text{ is a natural number less than 10} \}$  then cardinality of set A is \_\_\_\_\_. a) 10 b) 9 c)  $\infty$  d) 1
- 3) If every element of set A is related to every element of set B then the relation is called as \_\_\_\_\_ relation.
  a) void b) universal c) function d) reflexive
- 4) If f (x) =  $x^2 5x$  then f (4) = \_\_\_\_\_. a) 16 b) 36 c) 4 d) - 4
- 5) The non zero integers a and b are said to be \_\_\_\_\_\_\_\_
  integers if their g. c d. is 1.
  a) prime b) reducible c) relatively prime d) invertible
- 6) If \* is a binary operation defined on set A and if (a \* b) \* c
  = a \* (b\* c), for all a, b, c ∈ A, then \* is said to be \_\_\_\_\_.
  a) associative b) commutative
  c) invertible d) none of theses
- 7) De Morgan's law is  $(A \cap B)' = \_$ a)  $A' \cap B'$  b)  $A \cap B$  c)  $(A \cup B)'$  d)  $A' \cup B'$

### Q.1 B) Fill in the blanks:

- 1) The inverse of the conditional statement  $p \rightarrow q$  is \_\_\_\_\_.
- The cardinality of the set A = { 0 } is \_\_\_\_\_
- 3) If a set A contains 'n' elements then its power set will contains \_\_\_\_\_ elements.

Max. Marks: 70

07

- Attempt any two of the following questions. 1) Let A = {a, b, c, d, e}. Let R be the relation defined on the set A
  - given by  $R = \{(a, a), (a, b), (a, c), (b, a), (b, d), (c, b), (c, e), (d, d), (d, e), (e, a), (e, e)\}$ . Then write matrix of relation R. Draw digraph of relation R. Also find in-degree and out-degree of each element of set A.
- 2) Define relatively prime integers. Hence show that the integers 1357 and 1166 are relatively prime.
- 3) Show that the function f: R  $\rightarrow$  R defined by  $f(x) = \frac{3x-5}{2}$  for all  $x \in R$ , is bijective function.

#### Q.3 Attempt any two of the following questions (Any two)

- 1) How many integers between 1 to 987 which are divisible by 3 or 5 or 7.
- 2) Construct the switching circuits for the following Boolean expression.
  - i)  $[(x \land y' \land z) \lor (y' \land z \land x) \lor (x' \land y)] \land (x' \lor y)$

ii)  $(x' \land y \land z) \lor (y' \land z)$ 

 Let R be the relation defined on the set Z by xRy if and only if (3x + 4y) is divisible by 7, x, y ∈ Z. Show that R is an equivalence relation on Z.

#### Q.4 Attempt any two of the following questions.

 Define cardinality of a set. Let U = {a, b, c, d, e, f, g, h}. Let P = {a, b, e, g, h} and Q = {a, c, d, e, f} be the subsets of U, then write the following sets and their cardinalities.

2) Prepare the truth table for the following statement. Also state whether it is tautology or contradiction or neither.

 $\sim [(p \rightarrow q) \land \sim (p \leftrightarrow r)]$ 

- 3) State Fermat's theorem. Hence find the remainder when 4<sup>398</sup> is divided by 7.
- Q.5 1) Translate into symbolic form and test the validity of following argument by using truth table.
  "I will pass B.C.A. if and only if I study regular. If I study regular then Discrete Mathematics is very easy. Discrete Mathematics is not easy. Therefore I studied regular and I pass B.C.A."
  2) Define transitive closure. Hence find transitive closure R\* of 07
  - 2) Define transitive closure. Hence find transitive closure R\* of the relation R =  $\{(1, 1), (1, 2), (2, 2), (3, 1), (3, 2)\}$  defined on
- Page **2** of **3**

4) If all the elements in matrix of relation R are 1 then relation R must be \_\_\_\_\_ relation.

#### Q.1 C) State whether the following statements are true or false: 03

- 1) If f(x) = y, then x is called as pre-image of y.
- 2)  $|A \cup B \cup C| = |A| + |B| + |C| |A \cap B| |A \cap C| -$ 
  - $|B \cap C| + |A \cap B \cap C|$  where A, B, C are finite sets.
- 3)  $p \land (q \lor r) \equiv (p \land q) \land (p \land r)$

Q.2

14

14

07
14

- ii) Transitive relation and
- iii) Equivalence relation

Max. Marks: 70

Seat No.

# B.C.A. (Semester – II) (Old) (CGPA) Examination, 2017 **OBJECT ORIENTED PROGRAMMING WITH C++**

Day & Date: Wednesday, 12-04-2017

Time: 10.30 AM to 01.00 PM

- N.B.: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt any one question from Q. 5 and 6.
  - 4) Figures to the right indicate full marks.

#### Q.1 **Choose correct alternatives: A**)

- is logical operator. 1)
  - a) != c) >=

a) conditional

- d) None of these
- 2) What is this operator called ? : ?
  - b) relational
  - c) casting operator d) none of the mentioned

b) !

- 3) \_\_\_\_\_is object based language.
  - a) Ada b) Smalltalk
  - d) none of the mentioned c) Java
- 4) Reference variable provides \_\_\_\_\_\_ for previously defined variable.
  - a) Reference b) name c) Alias
    - d) none of the above
- 5) If access specifier of base class is public then, all public members in base class remain \_\_\_\_\_in derived class.
  - a) public b) protective
  - c) private d) none of the above

#### Q.1 B) State whether True or False:

- 1) C++ allows the declaration of variable anywhere in the scope.
- 2) When a C++ program is executed the function that appears first in the program is executed first.
- 3) A constructor is always declared in public section.
- 4) Overloaded operators follow the syntax rules of the original operators.
- 5) fstream provides support for simultaneous input and output operations.

05

Q.1	<ul> <li>C) Fill in the blanks: <ol> <li>An inline function is a function that expands in a line when it is invoked.</li> <li>The constructor that does the dynamic construction is known as constructor.</li> <li>Virtual functions must be member of the class.</li> <li>As class with pure virtual function can not be</li> </ol> </li> </ul>	04
Q.2	<ul> <li>Write answer of the following questions (Any two)</li> <li>1) Differentiate between procedures oriented and object oriented programming.</li> <li>2) What is constructor? Explain features, types and role of constructor.</li> <li>3) Explain the program structure of C++ program.</li> </ul>	07 07 07
Q.3	<ul> <li>Write answer of the following questions (Any two)</li> <li>1) What is runtime polymorphism? How it is achieved.</li> <li>2) Differentiate between structure and class.</li> <li>3) Write a note on "in-line functions". When it is used.</li> </ul>	07 07 07
Q.4	<ul> <li>Write answer of the following questions (Any two)</li> <li>1) What is friend function? What are the advantages of friend function?</li> <li>2) What is operator overloading? Give the rules for operator overloading.</li> <li>3) Write a note on "Nesting of classes".</li> </ul>	07 07 07
Q.5	<ol> <li>Explain the use of new, delete and scope resolution operator with example.</li> <li>Write a program to exchange private values of two classes using friend function.</li> </ol>	07 07
Q.6	<ol> <li>Explain copy constructor with suitable example.</li> <li>Write a program to copy the contents of a text file into another file.</li> </ol>	07 07
Q.7	<ul> <li>Write short notes on (Any Two)</li> <li>1) Memory dereferencing operators</li> <li>2) Benefits of OOP</li> <li>3) Abstract base class</li> </ul>	14

Max. Marks: 70

07

Seat No.

# B.C.A. (Semester – II) (Old) (CGPA) Examination, 2017 WEB TECHNOLOGY

Day & Date: Saturday, 15-04-2017

Time: 10.30 AM to 01.00 PM

## **N.B.**: 1) Q.1 and Q.7 are compulsory.

- 2) Attempt **any two** questions from Q. **2**, **3** and **4**.
  - 3) Attempt **any one** question from Q. **5** and **6**.

### Q.1 A) Choose correct alternatives:

- 1) Which of the following is not a valid JavaScript variable name?
  - a) 2java

- b) \_java\_ and \_java \_ names
- c) Javaandjava d) None of the above
- 2) Which of the following is correct to write "Hello World" on the web page?
  - a) System.out. println("Hello World")
  - b) print("Hello World")
  - c) document.write("Hello World")
  - d) response.write("Hello World")
- 3) Java script can be used for Storing the form's content to a database file on the server.a) Falseb) True
- 4) Which of the following is used to create Web Page?
  - a) JVM b) HTML
  - c) C d) DTD

## 5) Benefits of Internet?

- a) Education b) Advertisement
- c) Careers d) All of the above
- 6) VBScript is provided by
  - a) IBM c) Microsoft
- b) Sun Microsystem
- d) Google
- 7) Which of the following ways below is correct to write a CSS?
  - a) p {color: red; text-align:center};
  - b) p {color: red; text-align:center}
  - c) p {color: red; text-align:center;}
  - d) p (color: red; text-align:center;)

Q.1	<ul> <li>B) Fill in the blanks:</li> <li>1) In HTML is the largest heading tags.</li> <li>2) CSS stands for</li> <li>3) TCP/P stands for</li> <li>4) An external style sheet is ideal when the style is applied to pages.</li> </ul>	07
	<ul> <li>5) Java script is aside language.</li> <li>6) The browser uses tag to detect javascript.</li> <li>7) FTP stands for</li> </ul>	
Q.2	<ul> <li>A) What is Protocol? Write a note one Internet Technology.</li> <li>B) What is Browsers? Explain cross browser testing.</li> </ul>	07 07
Q.3	<ul> <li>A) What is HTML? Explain types of lists with suitable example, use formatting tags in example.</li> <li>B) What is frameset in HTML? Why we use frames? Create three horizontal frames.</li> </ul>	07 07
Q.4	<ul> <li>A) Explain formatting tags in html with suitable example.</li> <li>B) Explain align, bgcolor, border, cellpadding, cellspacing tag in table with suitable example.</li> </ul>	07 07
Q.5	<ul> <li>A) Explain Hidden Form Field, Input text, Check Box, Radio, Submit Button with suitable example.</li> <li>B) What is CSS? Explain CSS with suitable example.</li> </ul>	07 07
Q.6	<ul> <li>A) What is event in Java script? Explain Onclick, Onload and Onchange events.</li> <li>B) Explain Arithmetic operator in VBscript with suitable example.</li> </ul>	07 07
Q.7	<ul> <li>Write short notes on:</li> <li>1) HTML Tables</li> <li>2) Links in HTML</li> <li>3) Variables in VB script</li> <li>4) TCP/IP</li> </ul>	04 04 04 02

Max. Marks: 70

07

Seat No.

# B.C.A. (Semester – II) (Old) (CGPA) Examination, 2017 FINANCIAL ACCOUNTING WITH TALLY

Day & Date: Tuesday, 18-04-2017

Time: 10.30 AM to 01.00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt **any one** question from Q. **5** and **6**.
  - 4) Figures to the **right** indicate **full** marks.

#### Q.1 A) Choose correct alternatives:

- Which shortcut key is pressed to create a new company in Tally?
  - a) F3 b) F2 c) Alt + F3 d) Alt + F2
- 2) How many groups are pre-defined in Tally?
  - a) 28 b) 30 c) 15 d) 20
- 3) In which voucher type credit purchase entry is posted in Tally?
  - a) F5 : payment b) F7 : journal
  - c) F9 : purchase d) F6 : receipt
- 4) Which option is used to enable VAT, TDS and Services Tax in Tally?
  - a) Accounting featuresc) Statutory and taxation
- b) Inventory featuresd) None of these

#### 5) We can modify an existing company from

- a) Company Info > Alter
- b) Company Info>Alter company
- c) Gateway of tally>modify company
- d) None of these

#### 6) The shortcut used to activate calculator is

- a) Ctrl + N c) Ctrl + A d) Ctrl + B
- 7) To declare a voucher as posted dated press
  - a) Ctrl + T
     b) Ctrl + P

     c) Alt + T
     d) Ctrl + D

Q.1	B)	Fill in the blanks:	07
	,	<ol> <li>Value of machinery comes under group.</li> </ol>	
		2)voucher records all fund transfer between Bank	
		account or cash accounts.	
		<ol><li>means the amount withdrawn by proprietor from</li></ol>	
		business for personal use in cash or kind.	
		4) is a statement of liabilities and assets on a particular	
		date?	
		5) are used for recording day to day transactions.	
		<ol> <li>To record transaction of future dates type of voucher is used.</li> </ol>	
		7) In receipt voucher cash account has type of balance.	
Q.2	Wr	ite answer of the following questions (Any two)	14
	a)	Explain the opening screen of the Tally.	
		Explain the features of Tally.	
	c)	What is TDS? And how to create TDS Master and Ledger in Tally.	
0.2	10/10		14
Q.3		ite answer of the following questions (Any two)	14
		Explain the Bank Reconciliation Statement.	
		How to create a new company in Tally?	
	C)	Explain the Scenario Management in Tally.	
Q.4	Wr	ite answer of the following questions (Any two)	14
		Draw journal specimen, ledger, trial balance specimen and	
		Balance Sheet specimen.	
	b)	Define voucher and explain different type of vouchers.	
	C)	Explain in detail Units of measures.	
Q.5	Sta	te voucher for following transaction.	14
Q.U		Mr. Nitin starts business with Rs. 100000/	14
		Paid for office building Rs. 5000/- and furniture for Rs. 1000/	
		Paid amount for rent Rs. 1000/	
		Rs. 5000/- withdrawn from bank for personal use.	
	,	Withdraws Rs. 1000/- for office use.	
		Received cash from Mr. Ganesh Rs. 1000/	
	,	Deposit Rs. 10, 000/- in Bank	
Q.6	Def	fine accounting. Explain the different concept of accounting.	14
~ -	A		
Q.7		swer the following:	14
		Define VAT and explain different VAT rates, classification.	
		What is meant by sales order? How to create, alter and delete	
		sales order.	

# B.C.A. (Semester – II) (Old) (CGPA) Examination, 2017 **DEVELOPMENT OF HUMAN SKILLS**

Day & Date: Thursday, 20-04-2017

Max. Marks: 70

07

Time: 10.30 AM to 01.00 PM

**N.B.**: 1) Q.1 and Q.7 are compulsory.

2) Attempt any two questions from Q. 2, 3 and 4.

3) Attempt any one question from Q. 5 and 6.

#### Q.1 A) Choose correct alternatives:

- 1) The capacity to work is called as \_\_\_\_\_.
  - a) Ability b) Learning
  - c) Reading

a) oral

d) Writing

2) The speech is without any preparation is called as .

- a) Formal speechb) Seminarc) Extempore speechd) Conference
- 3) Interview is form of \_\_\_\_\_ Communication.
  - b) Written
  - c) gesture d) Reading
- 4) A process in which the person gets to know about himself is called
  - a) ability b) values
  - c) skill d) self discovery

The word reinforcement is related to \_\_\_\_\_\_

- b) Learning a) Writing
- d) Speaking c) Ability
- Which of the following are not the characteristics of good speech \_\_\_\_\_.
  - a) Concrete b) confusing d) clear
  - c) overview
- 7) \_\_\_\_\_ Reader moves his lips & larynx while reading. a) Motor
  - b) auditory
  - c) visual d) sensory
- 8) The listener must judge the content of the message rather than the of the speaker.
  - a) Strength

- b) Weakness
- c) Personality
- d) Style

	SLR-U	- 9
	<ol> <li>is the ability to secure desirable action from a group of follow voluntarily use of core-coin.</li> </ol>	VS
	a) Creativity b) Work style c) Leadership d) Critical thinking	
Q.1	<ul> <li>B) Fill in the blanks: <ol> <li>is cursory reading.</li> <li>is a fundamental process of life to progress our self.</li> <li>Good part of personality can be termed as of the personality.</li> </ol> </li> <li>4) Goal setting is essential for</li> <li>5) Receivers response is called</li> </ul>	05
Q.2	<ul> <li>Write answer of the following questions (Any two):</li> <li>a) What is meant by human skills? Explain writing and learning skill.</li> <li>b) Explain learning through reinforcement.</li> <li>c) What is mean by attitudes and write sources or formation of attitude?</li> </ul>	14
Q.3	<ul> <li>Write answer of the following questions (Any two):</li> <li>a) Define interview and types of interview.</li> <li>b) What is mean by learning explain its types?</li> <li>c) SWOT concept and analysis.</li> </ul>	14
Q.4	<ul> <li>Write answer of the following questions (Any two):</li> <li>a) Explain leadership skill.</li> <li>b) Explain computing skill.</li> <li>c) Write a note on formal speech.</li> </ul>	14
Q.5	<ul> <li>Answer the following questions.</li> <li>a) Explain employer's expectations during the interview.</li> <li>b) Define values and write universal five values.</li> </ul>	14
Q.6	Answer the following questions. a) Write note on conducting Seminar. b) What is meant by basic abilities? Explain their types.	14
Q.7	<ul> <li>Write a short note (Any two)</li> <li>a) Dos and Don'ts of GD?</li> <li>b) Intellectual and social ability</li> <li>c) Stress management skill</li> <li>d) Planning to presentation</li> </ul>	14

# B.C.A. (Semester – II) (Old) (CGPA) Examination, 2017 BUSINESS STATISTICS

Day & Date: Saturday, 22-04-2017

Max. Marks: 70

10

Time: 10.30 AM to 01.00 PM

### N.B.: 1) Q.1 and Q.7 are compulsory.

2) Attempt any two questions from Q. 2, 3 and 4.

3) Attempt any one question from Q. 5 and 6.

- 4) Figures to the **right** indicate **full** marks.
- 5) Use of any type of calculator is allowed.
- 6) Graph paper will be supplied on request.

### Q.1 A) Select most correct alternatives:

- 1) In \_\_\_\_\_method entire population is studied.
  - a) Census b) Sampling
  - c) Stratified Sampling d) None of these

# Classification is the technique used to \_\_\_\_\_.

- a) Condense the raw data
- b) Simplify the complex nature of data
- c) Compare two data sets
- d) All of these
- The measure of central tendency that depends only on maximum frequency is \_\_\_\_\_.
  - a) Median b) mode c) A.M. d) all of these
- 4) The median of 9 observations is 31, if each observation is decreased 2 then median will be \_\_\_\_\_
  - b) 31
    - d) none of these

#### 5) The most reliable measure of dispersion is \_\_\_\_\_

- a) Range b) Coefficient of range
- c) s.d. d) None of these
- If two variables change in opposite direction, then there is \_\_\_\_\_correlation.
  - a) positive c) perfect

a) 9

c) 29

- b) negatived) none of these
- If regression coefficients are negative, then correlation between two variables is \_\_\_\_\_
  - a) Positive b) Negative

### c) May be positive or negative d) None of these

### 8) \_\_\_\_\_is not a problem in construction of index number.

- a) Selection of weights
- c) Selection of current period d) None of these

b) Selection of base period

- 9) If P(A/B) = P(A), then events A and B are \_\_\_\_\_events.
  - a) independent b) dependent
  - c) mutually exclusive d) exhaustive
- 10) If corr(X,Y) = 0.3, then corr(2X,2Y) = \_\_\_\_\_
  - a) 0.3 b) 0.6
  - c) 0.15 d) None of these

### Q.1 B) Write whether the following statements True or False: 04

- 1) Stratified sampling method provides a representative sample if population is heterogeneous.
- 2) Mode can not be determined from ogives.
- 3) Any sub-set of sample space is called event.
- 4) Measure of dispersion 's. d.' is based on all observations.

### Q.2 Attempt (Any two)

- a) Explain stratified sampling method.
- b) Compute median for the data given below.

Class	5-10	10-15	15-20	20-25	25-30	30-35
Frequency	4	7	11	9	6	3

c) Compute Karl Pearson's coefficient of correlation between X and Y and interpret the result. If n = 15,  $\sum X = 165$ ,  $\sum Y = 300$ ,  $\sum X^2 = 2670$ ,  $\sum Y^2 = 9540$ ,  $\sum XY = 1945$ 

## Q.3 Attempt (Any two)

- a) Define i) Class frequency ii) attribute iii) variable iv) class width
- b) Find Laspeyre's, Paasche's and Fisher's price index number for the data given below.

Commodity	Base	Period	Current Period		
	Price	Quantity	Price	Quantity	
A	5	2	7	1.5	
В	20	3	25	3.5	
С	18	1.5	15	2	

c) Following data shows information about wages of workers of factory A and B

	Factory-A	Factory-B
No. of Workers	50	70
A.M. of daily wages	75	65
Variance of daily wages	150	145

Find: i) Which factory shows large wage bill?

ii) Which factory shows consistency in wages?

14

#### Q.4 Attempt (Any two)

- a) Define S.D. and state its merits and demerits.
- b) A die is tossed 2 times. Write sample space and find probability of getting i) sum of numbers on upper face of dice is 9 ii) number on first die is even number.
- c) The equations of lines of regression Y on X and X on Yare 2X+4Y=80 and 9X+3Y=120 respectively.
   Find- i) A.M. of X and Y ii) correlation coefficient between X and Y.
- Q.5 a) Define- i) equally likely events ii) exhaustive events iii) Probability 07
  - b) Draw less than ogive to represent the following data and hence **07** obtain median.

Class	30-35	35-40	40-45	45-50	50-55	55-60	60-65
Frequency	7	14	30	20	17	10	8

- **Q.6** a) Define correlation and interpret when r = +1, -1, 0
  - b) The mean marks scored by all students in the class in 60. The mean marks scored by male and female students are 65 and 53 respectively. Find percentage of male and female students in the class.

### Q.7 Attempt any two:

- a) Define Index number and explain selection of commodities in construction of index no.
- b) Define regression and state properties of regression coefficients.
- c) Given :

$$P(A) = \frac{3}{4}, P(B) = \frac{3}{5}, P(A \cap B) = \frac{3}{6}$$

find  $P(A \cup B)$ , P(A/B), P(B/A).

14

# B.C.A. (Semester – III) (CGPA) Examination, 2017 DATA STRUCTURE USING 'C'

Day & Date: Tuesday, 11-04-2017

a) Pre-orderc) Post-order

Max. Marks: 70

Time: 02.30 PM to 05.00 PM

		<ul> <li>N.B.: 1) Q.1 and Q.7 are compulsory.</li> <li>2) Attempt any two questions from Q. 2, 3 and 4.</li> <li>3) Attempt any one question from Q. 5 and 6.</li> <li>4) Figures to the right indicate full marks.</li> </ul>
Q.1	A)	Choose the single correct alternatives:141) The postfix form of A*B+C/D is
		<ul> <li>2) In what kind of storage we can easily insert, delete, concatenate and rearrange substrings?</li> <li>a) Queue</li> <li>b) Linked List</li> <li>c) Stack</li> <li>d) Array</li> </ul>
		<ul> <li>3) The data structure required to check whether an expression contains balanced parentheses is</li> <li>a) Stack b) Queue c) Array d) Tree</li> </ul>
		<ul> <li>4) A stack is not First In First Out (FIFO) data structure.</li> <li>a) True</li> <li>b) False</li> </ul>
		<ul> <li>5) If the elements "A", "B", "C" and "D" are placed in a queue and are deleted one at a time, in what order will they be removed?</li> <li>a) DCBA</li> <li>b) CADB</li> <li>c) ABCD</li> <li>d) None of these</li> </ul>
		<ul> <li>a) DOBA b) OADB c) ABCD d) Hone of these</li> <li>6) A data structure in which elements can be inserted or deleted at/from both the ends but not in the middle is</li> <li>a) queue b) circular queue</li> <li>c) priority queue d) dequeue</li> </ul>
		<ul> <li>7) A variant of linked list in which last node of the list points to the first node of the list is</li> <li>a) singly linked list b) doubly linked list</li> <li>c) circular linked list d) None of these</li> </ul>
		8) Which type of traversal of binary search tree outputs the value in sorted order?

b) In-order

d) None of these

	<ul> <li>9) When converting binary tree into extended binary tree, all the original nodes in binary tree are</li> <li>a) internal nodes on extended tree b) external nodes on extended to a set of the original nodes on extended to b) external nodes on extended to a set of the original nodes on extended to b) external no</li></ul>	tree
	c) vanished on extended tree d)None of the above	
	10)If the given array is sorted on nearly, which of the following algorithm gives best performance? a) Insertion sort b) Selection sort c) Quick sort d) Merge sort	
	<ul><li>11)Which of the following sorting procedure is slowest?</li><li>a) Quick sort b) Merge sort c) Shell sort d) Bubble sort</li></ul>	
	<ul><li>12) Which of the following is not a logical data structure?</li><li>a) Tree</li><li>b) List</li><li>c) Stack</li><li>d) None of these</li></ul>	
	<ul> <li>13)The post-order traversal of a binary tree is DEBFCA. Find out the pre-order traversal.</li> <li>a) ABFCDE</li> <li>b) ADBFEC</li> <li>c) ABDECF</li> <li>d) ABDCEF</li> </ul>	
	14)Stack can be implemented usinganda) array, binary treeb) linked list, graphc) array, linked listd) queue, linked list	
Q.2	<ul> <li>A) What is data structure? Explain array as ADT with suitable example.</li> </ul>	07
	<ul> <li>B) Write an algorithm to-</li> <li>1) insert data item into a queue</li> <li>2) delete data from a queue</li> </ul>	07
Q.3	<ul> <li>A) Explain in brief a linked list with its types.</li> <li>B) Write a program in C to insert an element in an array at given position.</li> </ul>	07 07
Q.4	<ul><li>A) What are the three traversal techniques for binary trees?</li><li>B) Explain binary tree representation.</li></ul>	07 07
Q.5	<ul> <li>A) Write the algorithm for selection sort and give a suitable example.</li> <li>B) Write and explain linear search procedure with a suitable example.</li> </ul>	07 07
Q.6	<ul> <li>A) Covert the following infix expressions into postfix form</li> <li>1) (A + B) * (C - D)</li> <li>2) A - B / (C + D * E)</li> </ul>	07
	B) Explain Exchange sort with example.	07
Q.7	<ul> <li>Write short notes on the following (Any two)</li> <li>1) Indexed sequential search</li> <li>2) Threaded binary tree</li> <li>3) AVL Tree</li> </ul>	14

## B.C.A. (Semester – III) (CGPA) Examination, 2017 NETWORKING AND DATA COMMUNICATION

Day & Date: Thursday, 13-04-2017

Max. Marks: 70

14

Time: 02.30 AM to 05.00 PM

#### **N.B.**: 1) Q.1 and Q.7 are compulsory.

- 2) Attempt any two questions from Q. 2, 3 and 4.
- 3) Attempt any one question from Q. 5 and 6.
- 4) Figures to the right indicate full marks.

#### A) Choose correct alternatives: Q.1

- 1) The physical layer concerns with
  - a) Bit-by-bit delivery
  - b) Process to process delivery
  - c) Application to application delivery
  - d) None of the mentioned
- 2) Most packet switches use this principle.
  - a) Stop and wait
  - b) Store and forward c) Both of the mentioned d) None of the mentioned

#### 3) In computer network nodes are

- a) the computer that originates the data
- b) the computer that routes the data
- c) the computer that terminates the data
- d) all of the mentioned
- 4) Railway track is the example of
  - a) Simplex

- b) Half Duplex
- c) Full Duplex d) None of the above
- 5) Which layer is responsible for process to process delivery?
  - a) Network layer b) Transport laver
  - c) Session layer d) Data link laver
- 6) CRC stands for
  - a) Cyclic redundancy check b) Code repeat check
  - c) Code redundancy check
- d) Cyclic repeat check
- Which one of the following is the multiple access protocol for channel access control?
  - a) CSMA/CD

b) CSMA/CA

c) Both a and b

d) None of the mentioned

	<ul> <li>8) Which one of the following is not a function of network layer?</li> <li>a) Routing</li> <li>b) Inter-networking</li> <li>c) Congestion control</li> <li>d) None of the mentioned</li> </ul>	
	<ul> <li>9) Bridge works in which layer of the OSI?</li> <li>a) Application layer</li> <li>b) Transport layer</li> <li>c) Network layer</li> <li>d) Data link layer</li> </ul>	
	10)What protocol is used to find the hardware address of a local device? a) RARP b) ARP c) IP d) ICMP	
	<ul><li>11)The phone network uses circuit switching.</li><li>a) True</li><li>b) False</li></ul>	
	<ul> <li>12) topology uses multipoint technology.</li> <li>a) Star b) Bus c) Ring d) Mesh</li> </ul>	
	<ul><li>13)In datagram network, each packet is treated independent.</li><li>a) True</li><li>b) False</li></ul>	
	<ul><li>14)Bridge is device.</li><li>a) Networking b) Connecting c) Internetworking d) Routin</li></ul>	g
Q.2	<ul> <li>Write the answer of the following questions (Any two):</li> <li>a) Explain Fiber optic cable in detail.</li> <li>b) Differentiate between TCP and UDP.</li> <li>c) Explain communication model in detail.</li> </ul>	14
Q.3	<ul> <li>Write the answer of the following questions (Any two):</li> <li>a) Explain protocol hierarchy in detail.</li> <li>b) Explain Link State Routing in detail.</li> <li>c) Explain Real time transport protocol in detail.</li> </ul>	14
Q.4	<ul> <li>Write the answer of the following questions (Any two):</li> <li>a) What is topology? Explain different types of topology.</li> <li>b) Explain packet switching in detail.</li> <li>c) Explain stop and wait protocol.</li> </ul>	14
Q.5	<ul> <li>Write the answer of the following questions.</li> <li>a) Explain ISO-OSI reference model in detail.</li> <li>b) Explain Data Compression in detail.</li> </ul>	14
Q.6	<ul><li>Write the answer of the following questions.</li><li>a) Explain Transmission Mode in detail.</li><li>b) Explain shortest path algorithm.</li></ul>	14
Q.7	<ul> <li>Write the short notes (Any two)</li> <li>1) Bridge</li> <li>2) Time Division multiplexing</li> <li>3) Hamming distance</li> <li>4) ARP &amp; RARP</li> </ul>	14

# B.C.A. (Semester – III) (CGPA) Examination, 2017 DATABASE MANAGEMENT SYSTEM

Day & Date: Monday, 17-04-2017

Max. Marks: 70

07

Time: 02:30 PM to 05:00 PM

**N.B.**: 1) Q.1 and Q.7 are compulsory.

2) Attempt any two questions from Q. 2. 3 and 4.

3) Attempt any one question from Q. 5 and 6.

#### Q.1 Choose correct alternatives: A)

- 1) The level of data abstraction which describes how the data is actually stored is \_\_\_\_\_,
  - a) physical level

c) storage level

- b) conceptual level d) view level
- 2) The overall design of a database is called
  - a) Schema of the database b) Structure of the database
  - c) The screen of the database d) View of the database

#### 3) Which of the following is not a proper state of transaction?

- b) partially committed a) partially aborted
- c) aborted
- d) committed
- Rollback of transaction is normally used to
  - a) recover from transaction failure
  - b) update the transaction
  - c) retrieve old records
  - d) repeat a transaction

#### 5) A view of database that appears to an application program is known as \_\_\_\_\_.

- a) report b) structure
- d) schema c) subschema
- 6) is an example of entity.
  - b) Student
  - a) Student namec) Student address d) Roll number
- 7) The advantage of normalization is
  - a) to avoid redundancy b) increase flexibility c) Both a and b d) None of these
  - c) Both a and b
- d) None of these

Q.1	B)	<ul> <li>State whether True or False:</li> <li>1) A relationship is an association among several entities.</li> <li>2) A candidate key can be a subset of a super key.</li> <li>3) A weak entity set has a primary key.</li> <li>4) Aggregation operation is used to construct complex entities.</li> </ul>	04
Q.1	C)	<ul> <li>Fill in the blanks:</li> <li>1) The language used for data modification is known as</li> <li>2) The primary key index does not allow data in a field.</li> <li>3) The rule of 3NF is</li> </ul>	03
Q.2	a) ( b) \	te answer of the following questions (Any two): State and explain different transaction properties. What is data model? Explain the record based data model. What is DBMS? Explain purpose of DBMS with suitable example.	14
Q.3	a)   ; b) \	<b>te answer of the following questions (Any two):</b> Describe briefly Relational Algebra. Explain any two relational algebra operators with example. What is normalization? Explain 2NF with suitable example. Explain specialization and aggregation in details.	14
Q.4	a)   b) '	<b>te answer of the following questions (Any two):</b> Explain in detail deadlocks. What is indexing? Explain various methods of indexing. Explain timestamp based protocol.	14
Q.5	,	Explain architecture of DBMS. Explain the different notations used in ER-diagram.	07 07
Q.6		Explain two-tier and three-tier architecture. Write a short note on log based recovery method.	07 07
Q.7	1) 3 2) 3	<b>te short notes on (Any Two):</b> Shadow paging Schemas and instances Serializability	14

# B.C.A. (Semester – III) (CGPA) Examination, 2017 CORE JAVA

Day & Date: Wednesday, 19-04-2017

Max. Marks: 70

07

Time: 2:30 PM to 05.00 PM

### **N.B.**: 1) Q.1 and Q.7 are compulsory.

- 2) Attempt **any two** questions from Q. **2**, **3** and **4**.
  - 3) Attempt **any one** question from Q. **5** and **6**.
  - 4) Figures to the **right** indicate **full** marks.

### Q.1 A) Choose correct alternatives:

- 1) What will be the value of x after the following section of code executes int x = 5; if(x>3) x=x+2 else x=x-2 a) 1 b) 3 c) 5 d) 7
- 2) The lowest index that can be used with an array
  - a) is zero
  - b) is one
  - c) is determined by the array declaration
  - d) none of the above
- 3) Which block contains a block of program statements within which an exception might occur?
  - a) catch b) try
  - c) throw d) final
- 4) Which is super class of all exception classes?
  - a) Throwable b) Exception
  - c) RuntimeException d) IOException
- 5) Many threads at a time can run in a single process?a) Trueb) False
- 6) A final class not to be inherited?a) Trueb) False
- 7) Which is the result of following code? System.out.println("1 + 2 =" + 1 + 2);
  a) 3 = 3
  b) 1 + 2 = 12
  c) 1 + 2 = 3
  d) All of the above

Q.1	B)	<ul> <li>Fill in the blanks:</li> <li>1) An! Sign in an expression means</li> <li>2) A case label is used with a statement.</li> <li>3) Command to execute compiled java program is</li> <li>4) Single quotes are used with constants of the type.</li> </ul>	04
Q.1	C)	<ul> <li>State true or false:</li> <li>1) Every statement with if must also include else.</li> <li>2) The = = operator used to see if two strings have the same characters.</li> <li>3) AWT is an extended version of Swing.</li> </ul>	03
Q.2	b)	Explain any five data types in java. What is variable? Explain with suitable example. Write a note on Structure of java program.	05 05 04
Q.3	b)	Explain protected, public and default Access control in java with suitable example. Explain the usage of this keyword with one suitable example. Write a note on method overriding.	05 05 04
Q.4		Write a java program to input values of 3 *3 two matrices and print addition and subtraction of these values. Write a program to input 10 values of one dimensional array and print sum of odd and even values and there average.	07 07
Q.5		Explain java thread life cycle with suitable diagram. Explain Try catch block with suitable example.	07 07
Q.6		What is constructor? Explain types of constructor with suitable example. Explain Inheritance with suitable example.	07 07
Q.7	1) 2) 3)	<b>ite short notes:</b> Listeners in java Decision making statements Static Key Word in java Super Key Word	04 04 04 02

Max. Marks: 70

Seat No.

# B.C.A. (Semester – III) (CGPA) Examination, 2017 FINANCIAL MANAGEMENT

Day & Date: Friday, 21-04-2017

Time: 2:30 PM to 05:00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt any one question from Q. 5 and 6.

#### A) Choose correct alternatives: Q.1

- 1) Business Finance deal with all of Business.
  - a) Planning activities b) Financial activities
  - c) Managerial activities d) Manufacturing activities
- is a basic principle of any business activity.
  - a) Profit maximization
    b) Wealth maximization
    c) Higher divided
    d) None of the above
  - d) None of the above c) Higher divided
- The difference between current assets & current liabilities is a \_ capital.
  - a) Debt b) Fixed c) Working d) None
- 4) \_\_\_\_\_ refers to the assessment of financial requirement then arranging the source of capital.
  - a) Financial planning b) Financial budgeting
  - c) Capital requirement d) Selling
- 5) Equity shares are paid dividend at rate. a) Fluctuating b) Fixed c) High d) Lower
- 6) Operating leverage results form

  - a) Operating profit b) Variable costs c) Fixed costs d) Operating expe c) Fixed costs d) Operating expenses

# 7) What does ploughing back of profit mean?

- a) Earning black money
- b) Dividend not claimed by the share holder
- c) Not paying a dividend in a certain year
- d) Retaining the earning

#### State whether True or False: Q.1 B)

- 1) It is not possible to go ahead without financial planning.
- 2) Operating leverage x financial leverage = combined leverage
- 3) Working capitals are required to meet the long term needs of the business.
- 4) Debenture holder can participate in the management of the company.

07

	<ul> <li>5) Rate of dividend payable on p</li> <li>6) EBIT means Earnings before</li> <li>7) Profit making is essential for t</li> <li>business.</li> </ul>	Interest & Taxes.	
Q.2	Write short notes (Any two): a) Importance & types of working cap b) Importance of financial manageme c) Over capitalization and under capi	ent.	14
Q.3	<ul> <li>Write short notes (Any two):</li> <li>a) Features of profit maximization.</li> <li>b) Function of financial manager.</li> <li>c) Merit &amp; demerits of wealth maximi</li> </ul>	zation.	14
Q.4	<ul> <li>Write answer of the following quest</li> <li>a) Define working capital &amp; state the</li> <li>b) Explain the steps in financial plant</li> <li>c) From the following information preworking capital requirement. Budgeted sales</li> <li>Analysis of one rupee of sales</li> <li>Raw material</li> <li>Direct labor</li> <li>Overheads</li> <li>Total cost</li> <li>Profit</li> <li>Sales</li> <li>It is assumed that: <ul> <li>a) Raw materials are carried in stegoods for 2 weeks.</li> <li>b) Factory processing will take 3 weeks</li> <li>Creditors require 5 weeks.</li> <li>d) Customer will require 8 weeks</li> <li>Production &amp; overheads accrue a year there are 52 weeks.</li> </ul> </li> </ul>	components of working capital. ing. pare a statement showing Rs. 2, 60, 000 p.a. Rs 0.30 0.40 0.20 $\overline{0.90}$ 0.10 $\overline{1.00}$ bock for 3 weeks & finished weeks.	14
Q.5	<ul><li>A) What is working capital? State the working capital.</li><li>B) What are the objectives of financial</li></ul>		07 07
Q.6	<ul><li>A) Define financial planning &amp; state the planning.</li><li>B) Critically evaluate the objectives or</li></ul>		07 07
Q.7	<ul> <li>Write short notes on (Any Two):</li> <li>1) Equity shares</li> <li>2) Operating leverage &amp; financial leverage</li> <li>3) Needs of working capital</li> </ul>		14

Max. Marks: 70

Seat No.

# B.C.A. (Semester – IV) (CGPA) Examination, 2017 SOFTWARE ENGINEERING

### Day & Date: Wednesday, 12-04-2017

Time: 02.30 PM to 05.00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.

b) Ellipse

d) Circle

- 3) Attempt any one question from Q. 5 and 6.
- 4) Figures to the right indicate full marks.

#### A) Choose correct alternatives: Q.1

- 1) The most important feature of spiral model is
  - a) Requirement analysis b) Risk management
  - c) Quality management d) Configuration management
- In a DFD external entities are represented by a \_\_\_\_\_.
  - a) Rectangle

a) Debugging

- c) Diamond Box
- 3) The objective of testing is \_\_\_\_\_
  - b) To gain modularity

d) Programming

- c) To analyze system
- 4) Changes made to the system to reduce the future system failure chances is called
  - a) Preventive Maintenance c) Corrective Maintenance
- b) Adaptive Maintenance d) Perfective Maintenance
- 5) DFD stands for Data Flow Diagram. b) False a) True
- 6) Cost-Benefit Analysis is performed during
  - b) Design phase
  - a) Analysis phase c) Feasibility study phase d) Implementation phase
- 7) Which phase is not available in software life cycle?
  - a) Coding b) Testing d) Abstraction
  - c) Maintenance
- 8) Structured charts are a product of
  - a) Requirements gathering
  - c) Design

- b) Requirements analysis
- d) Coding

	<ul><li>9) Software engineering is the sys</li><li>a) Development of software</li><li>c) Operation of software</li></ul>	b) Maintenance of software	
	10) In decision trees branches rep a) True	resent actions to be performed. b) False	
	<ul><li>11) Primary goal of software engin</li><li>a) Technique</li><li>c) Both a and b</li></ul>	eering is to improve the b) Quality d) None of these	
	12)is the main source of ex a) Control c) Environment	kternal elements. b) Feedback d) Boundaries	
	<ul><li>13) The process in which existing referred as data conversion.</li><li>a) True</li></ul>	data is loaded into a new system b) False	is
	14) To run the old system and the specified period, the system in	e new system at the same time for mplementation approach used is	r a
	a) pilot c) parallel	b) phase d) direct	
Q.2	<ul><li>A) What is data capture? State its obje</li><li>B) Explain the role of system analyst.</li><li>C) What do you mean by 'configuring the state of the state</li></ul>		05 05 04
Q.3	<ul><li>A) Explain the components of data dict</li><li>B) Explain white box testing.</li><li>C) Give the advantages of normalization</li></ul>		05 05 04
Q.4	<ul> <li>A) Explain different symbols used in DI</li> <li>B) Explain different qualities of software</li> <li>C) Write note on need of testing.</li> </ul>		05 05 04
Q.5	<ul> <li>A) What is system? Explain different ty</li> <li>B) Draw CLD and 1<sup>st</sup> level DFD for Libr</li> </ul>	. ,	07 07
Q.6	<ul> <li>A) Explain decision table with suitable</li> <li>B) Explain bottom-up incremental imple advantages and disadvantages.</li> </ul>	•	07 07
Q.7	<ul> <li>Write short notes on the following (A</li> <li>1) Feasibility Study with its need</li> <li>2) Data Validation</li> <li>3) Principles of flowcharting</li> </ul>		14
		Daga <b>7</b>	<b>→+</b> 7

No.							
		B.C.A. (Semester – IV) (CGPA) Examination, 2017					
	RDBMS WITH ORACLE						
Day	Day & Date: Saturday, 15-04-2017 Max. Marks: 70						
Time	e: 02.	30 PM to 05.00 PM					
		<b>N.B.</b> : 1) Q.1 and Q.7 are compulsory.					
		2) Attempt <b>any two</b> questions from Q. <b>2,</b> to <b>4</b> .					
		3) Attempt <b>any one</b> question from Q. <b>5</b> and <b>6</b> .					
		4) All question carry <b>equal</b> marks.					
Q.1	A)						
		<ol> <li>is buffer which will store the results of the recent query.</li> <li>a) cursor</li> <li>b) table</li> <li>c) view</li> <li>d) all</li> </ol>					
		2) Which SQL keyword is used to sort the result set?					
		a) Order b) Sort c) Order by d) None					
		3) Theconstraint can only be applied at column level.					
		a) Foreign key b) Primary key c) Not null d) None of these					
		<ul> <li>4)group function ignores null values.</li> <li>a) max ()</li> <li>b) count ()</li> <li>c) sum ()</li> <li>d) count (*)</li> </ul>					
		5) The statement in SQL which allows changing the definition of					
		a table is					
		a) Select b) Update c) Create d) Alter					
		<ol><li>The RDBMS terminology for a row is</li></ol>					
		a) Tuple b) Relation c) Attribute d) All of the above					
		7) operator is used for appending two strings.					
		7)operator is used for appending two strings. a) & b) % c)     d) _					
		8)command is used to provide alias to a table or					
		view. a) Sequence b) Synonym c) Cluster d) Index					
		9)is assignment operator in PL/SQL. a) = = b) = c) : = d) None of above					
		a) = = b) = c) : = d) None of above					
		10) A primary key that consists of more than one field is					
		called a					
		a) Composite key b) Secondary key					
		c) Group key d) All of these					
		11) What does the following SQL statement do?					
		Select * From Customer Where Cust_Type ="Best";					
		a) Selects all the fields from the Customer table for each row					

with a cust\_type "best"b) Selects the"\*" field from the Customer table for each row with a cust\_type "best"

Seat

- c) Selects fields with a"\*" in them from the Customer table.
- d) Selects all the fields from the Customer table for each row with a cust\_type"\*"
- 12) What is the result of the "SELECT CEIL (3.6) FROM DUAL" query?
  - a) 3.5 b) 3.0 c) 4 d) 3.7
- 13) When implementing security in a DBMS, which of the following is **not** supported by the GRANT command?
  - a) Providing DELETE privileges
  - b) Changing passwords
  - c) Removing privileges of other people
  - d) Providing SELECT privileges

#### 14) Consider the following four tasks.

- i) Changing data in one or more rows in a table
- ii) Defining a View
- iii) Removing a row from a table
- iv) Removing a view Which SQL keywords have to be used to accomplish the above four tasks?
- a) i) ALTER ii) CREATE iii) DELETE iv) DROP
- b) i) ALTER ii) CREATE iii) INSERT iv) DELETE
- c) i) UPDATE ii) CREATE iii) DELETE iv) DROP
- d) i) UPDATE ii) CREATE iii) DROP iv) ÚPDATE

Q.2	<ul> <li>A) Write the difference between DBMS and RDBMS</li> <li>B) List the DML commands? Explain with syntax.</li> <li>C) Explain any four string functions with example.</li> </ul>	05 05 04
Q.3	<ul> <li>A) What is stored procedure? Explain IN &amp; OUT parameters with suitable example.</li> <li>B) What is exception in Oracle? Explain structure of exception handling with suitable example.</li> <li>C) Write the difference between SQL and PL/SQL.</li> </ul>	05 05 04
Q.4	<ul> <li>A) Write a PL/SQL to check entered number is prime or not.</li> <li>B) Explain Cartesian Join and Equi-Join with syntax.</li> <li>C) What is view? Explain with example.</li> </ul>	05 05 04
Q.5	<ul> <li>A) Explain different Integrity constraints in details.</li> <li>B) Explain different looping statements in PL/SQL.</li> </ul>	07 07
Q.6	<ul> <li>A) What is cursor? Explain types of cursor with suitable example.</li> <li>B) What is function? Explain with suitable example.</li> </ul>	07 07
Q.7	<ul> <li>Write short notes on the following (Any two):</li> <li>1) Sub Queries and Nesting Queries with example</li> <li>2) Trigger with example</li> <li>3) Indexes with example</li> </ul>	14

Max. Marks: 70

Seat No.

# B.C.A. (Semester – IV) (CGPA) Examination, 2017 **OPERATING SYSTEM**

### Day & Date: Tuesday, 18-04-2017

Time: 2:30 PM to 05:00 PM

### **N.B.**: 1) Q.1 and Q.7 are compulsory.

- 2) Attempt any two questions from Q. 2, 3 and 4.
- 3) Attempt any one question from Q. 5 and 6.
- 4) Figures to the right indicate full marks.

#### A) Choose correct alternatives: Q.1

c) batch O.S

- 1) The operating system where fixed time slot is allocated to each active process is \_\_\_\_\_
  - a) real time O.S
- b) multiprogramming O.S
- d) time-sharing O.S
- 2) A program in execution is called
  - a) Process b) Instruction d) Function
  - c) Procedure
- 3) Interval between the time of submission and completion of the job is called
  - a) Waiting time b) turn-around time
  - c) Throughput d) response time

### 4) FIFO scheduling is

a) preemptive scheduling b) Non-preemptive scheduling

d) None of these

c) deadlock scheduling

### 5) "Throughput" of a system is

- a) Number of programs processed by it per unit time
- b) Number of times the program is invoked by the system
- c) Number of requests made to a program by the system
- d) None of the above
- 6) There is a guarantee that the critical tasks are completed in given amount of time. That is called as
  - a) Hard real time system b) Soft real time system
  - c) Real time system d) None of the above

### 7) Virtual memory can be implemented with

- a) Segmentation b) Paging
- c) Both a and b d) None of the above

- 8) \_\_\_\_\_ is a technique of temporarily removing inactive programs from the Memory of computer system.
  - a) Swappingc) Semaphore
- b) Spoolingd) Scheduler

#### 9) The priority scheduling algorithm suffers by \_\_\_\_\_

- a) starvation b) aging
- c) deadlock d) All of these

### 10) The FIFO algorithm \_

- a) executes first the job that last entered the queue
- b) executes first the job that first entered the queue
- c) executes first the job that has been in the queue the longest
- d) executes first the job with the least processor needs

### Q.1 B) State True or False:

- 1) An operating system can be viewed as "resource allocator" to control various I/O devices and user programs.
- 2) Main Frame operating system was used for many commercial and scientific application.
- 3) Process is called as a passive entity.
- 4) The degree of Multiprogramming is controlled by Long-term Scheduler.

#### Q.2 Write answer of the following questions (Any two)

- a) Define Operating System. List out different types of Operating System. Explain Time Sharing Operating System and Real Time Operating System.
- b) Explain The Different Services provided by Operating System.
- c) CPU burst time indicates the time, the process needs the CPU. The following are the set of processes with their respective CPU burst time (in milliseconds).

Processes CPU-burst time P1 10 P2 5 P3 5

Calculate the average waiting time and average turnaround time if the process arrived in the following order:

- i) P1, P2 & P3
- ii) P2, and P3 & P1

#### Q.3 Write answer of the following questions (Any two)

- a) Define the term process. Describe the contents of a Process Control Block (PCB)
- b) Define the term deadlock? Explain the necessary conditions for deadlock to occur.
- c) Describe swapping and virtual memory in detail.

04

14

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Q.4	<ul> <li>Write answer of the following questions (Any two)</li> <li>a) What are semaphores? Explain semaphores in detail?</li> <li>b) Explain the different Scheduling criteria in detail.</li> <li>c) Define the term file? Explain different types of file.</li> </ul>	14
Q.5	<ul> <li>Answer the following questions.</li> <li>a) What is critical section problem? Explain Bounded Buffer problem?</li> <li>b) Explain with the help of examples FIFO and LRU page replacement algorithms?</li> </ul>	14
Q.6	<ul> <li>Answer the following questions.</li> <li>a) What is Scheduling? Explain Round Robin Scheduling algorithm with example.</li> <li>b) What is Segmentation? Explain Segmentation in details.</li> </ul>	14
Q.7	<ul> <li>Write answer of the following questions (Any two)</li> <li>a) What are the different directory structures available? Explain in details.</li> <li>b) Explain deadlock detection technique in details.</li> <li>c) Write short note on Monolithic and Layered Systems</li> </ul>	14

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Max. Marks: 70

Seat No.

# B.C.A. (Semester – IV) (CGPA) Examination, 2017 WEB TECHNOLOGY - II

Day & Date: Thursday, 20-04-2017

Time: 02.30 PM to 05.00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt **any one** question from Q. **5** and **6**.
  - 4) Figures to the **right** indicate **full** marks.

### Q.1 A) Choose correct alternatives:

- 1) Which of the following is the advantage of PHP?
  - a) Open source software b) Support cross platform
  - c) Both a and b d) None of these
- 2) Which function count elements in an array?
  - a) count b) Sizeof\_array
  - c) Array \_Count d) Count \_array
- 3) When using the POST method, variables are displayed in the URL.
  - a) True b) False
- 4) Use the \_\_\_\_\_\_ to delete the data inside the table but not the table itself.
  - a) drop table b) delete table
  - c) truncate table d) remove table
- 5) Session is client's information for a particular site stored on servers temporary memory.a) Trueb) False
- 6) \_\_\_\_\_keyword is used to refer to properties or methods within the class itself.
  - a) private b) public c) protected d) \$this
- 7) Which of the following keyword allows class members to be used without needing to instantiate a new instance of the class?a) protected b) final c) static d) private

8) In PHP a variable needs to be declaring before assign.a) Trueb) False

					JLN	-0-	IJ
-		owing variable na b) \$var1				\$var	
•	e feof() funct ached.	ion checks if the '	'end	-of-file" (E	OF) has	been	
a)	True		b)	False			
·	keyword super	is used to make v b) global		ble persist static	across f d) pa		
	e include() a True	nd require() are s		e in every as False	spects.		
	keywo Super	ord is used to avo b) Final				onstruct	
•		llowing function is b) header()			• •		
B) Explain	function and	HP as a server sinits types. g arguments to a			erence.		05 05 04
•		tion steps on MyS	QL	on windows	5		05
	explain date	time functions. structure of PHP p	orogi	ram.			05 04
B) Explain	•	plain use of interfa events with suitat ata types.			e examp	le.	05 05 04
<i>'</i>	•	establish the conr	necti	on from PH	IP to My	SQL	07
with coo B) What is	-	xplain with suitabl	e ex	ample.			07
	different sort	tions? Explain se ing techniques of				IS.	07 07
<ol> <li>Reading</li> <li>Creating</li> </ol>	g and writing g and destroy		-	<b>'O)</b>			14

Q.2

Q.3

Q.4

Q.5

Q.6

Q.7

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Seat No.

# B.C.A. (Semester – IV) (CGPA) Examination, 2017 **E-COMMERCE**

Day & Date: Saturday, 22-04-2017

Max. Marks: 70

Time: 2:30 PM to 05:00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt **any one** question from Q. **5** and **6**.

#### A) Choose correct alternatives: Q.1

- 1) The actual physical network made up of wires, cables, and satellites that connects computers and resources throughout the world is the
  - a) Web b) Internet
  - c) E-commerce d) Spiders
- Most common uses of the Internet and the Web include communicating, shopping,
  - a) searching, entertainment and education
  - b) e-commerce, e-mail and searching
  - c) e-mail, entertainment and education
  - d) e-commerce, e-mail and education
- The most common method for gaining access to the Internet is through a
  - a) dumb terminal
- b) virtual provider or computer
- c) point-to-point computer
- d) provider or host computer
- 4) These types of commercial Internet service providers are the most widely used
  - a) national service providers
  - b) regional service providers
  - c) centralized service providers
  - d) decentralized service providers
- 5) The two basic parts of URLs are
  - a) TCP/IP and ISP
  - b) destination and device
  - c) the protocol and the domain name
  - d) TCP and IP

a) DNSs

- 6) The extensions .gov, .edu, .mil, and .net are called
  - c) domain codes
- b) e-mail targets d) mail to addresses

- 7) HTML is an acronym for \_\_\_\_\_
  - a) Hyperlink Markup Language
  - b) Hypertext Markup Language

  - c) Hypertext Markup Linkd) Hypertext Modern Language

#### Q.1 B) Fill in the blanks:

	<ol> <li>The is a multimedia interface to resources available on the Internet.</li> </ol>	
	2) In the e-mail address "sallysilverspoon@macaroon.org," what	
	is the domain name?	
	<ol> <li>The second part of a URL is referred to as the name. It identifies the server where the resource is located.</li> </ol>	
	4) are special programs that are typically written in a	
	programming language called Java.	
	5) Destructive programs that are often attached to unsolicited	
	e-mail are called computer	
	<ol> <li>In a search, you enter a phrase reflecting the information you want.</li> </ol>	
	information you want. 7) Criminals known as specialize in stealing, trading and	
	using stolen credit cards over the Web.	
Q.2	Write a short note (Any two)	14
	a) What is Electronic commerce?	
	<ul><li>b) Objective of E-commerce.</li><li>c) Features of E-commerce.</li></ul>	
Q.3	Answer the following:	14
	a) What is Supply chains management?	
	b) Introduce to business strategy.	
Q.4	Answer the following:	14
<b>_</b>	a) Future of electronic market.	
	b) Benefits of Electronic Data Interchange.	
<u> </u>		
Q.5		14
	<ul> <li>a) Introduce to internet banking.</li> <li>b) Explain the functions of E-commerce.</li> </ul>	
Q.6	Answer the following:	14
	a) What is customer to customer electronic commerce?	
	b) Explain the type of Electronic Payment System.	
Q.7	Write a short note (Any two)	14
<b>_</b>	a) Steps for electronic payment system	
	b) E-Marketplace	
	c) Features of supply chain management	

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No.	

# B.C.A. (Semester – V) (New) (CGPA) Examination, 2017 ADVANCED JAVA - I

Day & Date: Tuesday, 11-04-2017

Max. Marks: 70

09

Time: 10.30 AM to 01.00 PM

**N.B.**: 1) Q.1 and Q.7 are compulsory.

2) Attempt any two questions from Q. 2, 3 and 4.
3) Attempt any one question from Q. 5 and 6.

# Q.1 A) Choose correct alternatives:

- 1) Which of the following type of JDBC driver, call native code of the locally available ODBC driver?
  - a) JDBC-ODBC Bridge plus ODBC driver
  - b) Native-API, partly Java driver
  - c) JDBC-Net, pure java driver
  - d) Native-Protocol, pure java driver

# 2) Which method is used to start the Applet?a) main()b) destroy()c) init()d) Repaint()

- 3) XML is designed to store data and?a) Designb) Verifyc) Transportd) Both a & b
- 4) Which of the following true about JDBC?
  - a) The JDBC is an API to access different relational database
  - b) You use it to access relational database without embedding a dependency on a specific database type in your code.
  - c) JDBC stands for Java Database Connectivity
  - d) All of the above

# 5) Which class can handle any type of request so it is protocol-independent?

a) GenericServlet

- b) HttpServlet
- c) Both a & b d) None of these
- 6) In applet which attributes are mandatory?
  - a) name, height, width
- b) code, named) code, height, width
- c) codebase, height, width d
- 7) Which is correct syntax of the declaration that defines the XML version?
  - a) <? xml version="1.0" ?> c) <? xml version="1.0" />
- b) <xml version="1.0" />
- d) None of the above

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	8)	) Which is a special generate the dyr		am that is em	bedded in	the webpage to	
		a) Package	b) Applet	c) Browse	r d)	None of the abo	ove
	9)	) These methods ( a) GenericServl c) Both a & b	et	(),doTrace() a b) HttpServle d) None of th	et	?	
Q.1	, 1) 2) 3) 4)	<ul> <li>tate True or Fals</li> <li>init() and destroin lifetime of serving</li> <li>CallableStatem</li> <li>Tomcat is an op</li> <li>XML stands for</li> <li>Servlet technologies</li> </ul>	by() method wi et. ent are used t ben source we Extensible Ma	o call SQL st b server. arkeup Lang	tored proc	cedure.	05
Q.2	a) Wh b) Wh c) Wri	pt any two from nat is Servlet? Ex nat is an applet? E ite a program to i ployee. (Using P	plain the use o Explain the life nsert the emp	of doGet() an e-cycle of app loyee numbe	d doPost blet.		14
Q.3	a) Wh b) Exp	pt any two from hat is Cookies? E plain the tree stru plain applet HTM	xplain method cture of an XN	s of cookies. //L with exam	nple.		14
Q.4	a) Exp disa b) Wh	p <b>t any two from</b> plain the types of advantages. hat is the use of x ite a applet progr	JDBC-drivers ml? Explain el	with their ad	İvantage a nl.		14
Q.5	usa	olain three differe age. olain servlet-life c	•••		nts in term	ns of their	14
Q.6	ma	nat is Session? Ex nagement. plain JDBC archit		form field usi	ng sessic	n	14
Q.7	a) incl b) Ser	<b>short notes on:</b> lude() and forwar rvletContext rameter passing i	d() methods o	f RequestDis	spatcher		14

# B.C.A. (Semester – V) (New) (CGPA) Examination, 2017 VISUAL PROGRAMMING

Day & Date: Thursday, 13-04-2017

Max. Marks: 70

14

Time: 10.30 AM to 01.00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt any one question from Q. 5 and 6.
  - 4) All question carry equal marks.

#### A) Choose correct alternatives: Q.1

- 1) What is return type of constructors? a) int b) float c) void d) None of these
- \_\_\_\_operator can be used to concatenate two or more String objects.
  - d) || a) + b) += c) &

### 3) Which of the following statement is correct?

- a) A struct can contain properties
- b) A struct can contain constructors
- c) Both a and b
- d) None of these
- 4) Which form of inheritance is not supported directly by C# .NET?
  - a) Multiple inheritance
- b) Multilevel inheritance
- c) Single inheritance

- d) Hierarchical inheritance
- 5) The process of defining two or more methods within same class that have same name but different parameters lists is known as method overriding. a) True b) False
- keyword is used to declare a base class method while 6) performing overriding of base class methods.
  - a) this b) virtual c) override d) extend
- 7) The DataAdapter object is used as an intermediary between the DataSet object and the data provider. a) True b) False
- control is used to select one option from a set of options. 8) \_

- b) GroupBox
- d) ComboButton

9) Does C#.NET support partial implementation of interfaces? a) True b) False

10)Select the correct statement about an Exception.

- a) It occurs during loading of program
- b) It occurs during Just-In-Time compilation
- c) It occurs at run time
- d) All of these

#### 11)In event-driven programming an event is generated by

- a) the system b) user's action d) none of these
- c) Both a and b

#### 12) Which of the following control is always read-only?

- a) TextBox b) Label
- c) RichTextBox d) All of these

#### 13) The method that will be invoked by a delegate at

- a) compile time b) run time c) load time link time d)

#### 14)Which of the following assemblies can be stored in Global Assembly Cache?

a) Private Assemblies b) Friend Assemblies c) Shared Assemblies d) Public Assemblies

Q.2	<ul> <li>A) Define Data Set. Give its advantages.</li> <li>B) Explain different methods of Thread class.</li> </ul>	05 05
	C) Define 1) FileInfo 2) DirectoryInfo	04
Q.3	A) Explain the steps to create and deploy an application.	05
	B) Explain indexer with suitable example.	05
	C) List the features of assemblies.	04

#### A) Write a program for implement method overloading. 05 Q.4 B) What is Delegate? Explain the applications. 05 C) Write note on ref and out parameter. 04

#### 07 Q.5 A) What are Anonymous methods? Explain with suitable example. B) Explain ArrayList collection class with its advantages. 07

#### Q.6 A) Explain architecture of ADO.Net. 07 07 B) Create a window application to add a new record using stored procedure.

Q.7	Write short notes on the following (Any two)			
	1) Run-time polymorphism			
	2) Thread Synchronization			

CheckBox and RadioButton Control

# B.C.A. (Semester – V) (New) (CGPA) Examination, 2017 LINUX & SHELL PROGRAMMING

Day & Date: Monday, 17-04-2017

Max. Marks: 70

14

Time: 10.30 AM to 01.00 PM

### **N.B.**: 1) Q.1 and Q.7 are compulsory.

2) Attempt any two questions from Q. 2, 3 and 4.

- 3) Attempt any one question from Q. 5 and 6.
- 4) Figures to the **right** indicate **full** marks.

#### A) Choose correct alternatives: Q.1

- 1) Shell Script cannot run in the background. a) True b) False
- 2) Which symbol will be used with grep command to match the pattern pat at the end of a line?
  - a) ^pat b) \$pat c) pat\$ d) >pat
- Find out inode number of a file, \_\_\_\_\_ option used in 'Is' command.
  - a) –inum c) –inode b) —i d) –in
- 4) The /etc/pass wd file doesn't contain a) User id b) home directory for a user
  - c) login shell name d) None of the above
- 5) Which option is used with cmp command to give a detailed list of the byte number and the differing bytes in octal for each character that differs in both the files? a) -d b) -l d) -bc c) -b
- 6) Linux has a /proc directory which shows the current state of kernel. a) True

b) False

- command is used with vi editor to move backward to 7) beginning of a word. a) w b) s c) b d) e
- 8) Which is true statement of following about Linux?
  - a) Shell is known as command interpreter
  - b) Kernel is heart of Linux
  - c) Linux use filesystem
  - d) All of these
- 9) Which of the following commands is used to have a two-way communication with any person who is currently logged in?
  - a) mail b) mesq d) None of these c) write

		24
	<ul> <li>10) The command 'chmod 761 file' is equivalent to</li></ul>	
	<ul> <li>11) Which is the correct way to use the nice command?</li> <li>a) Nice + 5ps</li> <li>b) nice 5 ps</li> <li>c) nice -d ps</li> <li>d) none of the above</li> </ul>	
	12) tool is used to partition your hard drive. a) mkfs b) fdisk c) fsck d) mount	
	<ul> <li>13) Which of the following is the main Apache Configuration file?</li> <li>a) /etc/apache.conf</li> <li>b) /etc/httpd/config</li> <li>c) /etc/acf.conf</li> <li>d) /etc/httpd/conf/httpd/conf</li> </ul>	
	<ul><li>14) What command is used to list the jobs currently in print queues?</li><li>a) lpq</li><li>b) lpr</li><li>c) lprm</li><li>d) lprq</li></ul>	
Q.2	<ul> <li>A) Explain the architecture of Linux operating system.</li> <li>B) Explain any five types of files in Linux operating system.</li> <li>C) Write a note on Insert mode.</li> </ul>	05 05 04
Q.3	<ul> <li>A) What is Redirection? Explain I/O Redirection with example.</li> <li>B) How to create and extract files from archive files?</li> <li>C) Differentiate between Hard-link &amp; Soft-link.</li> </ul>	05 05 04
Q.4	<ul> <li>A) Explain chown and chgrp with suitable example.</li> <li>B) Give the use and example of following commands.</li> <li>1) uniq</li> <li>2) cat</li> <li>3) ping</li> <li>C) Write a note on mysql configuration.</li> </ul>	05 05 04
Q.5	<ul> <li>A) Write a shell script to calculate to calculate simple interest.</li> <li>B) What does the command "grep"? What are the various options with example?</li> </ul>	07 07
Q.6	A) Explain the job control facilities in Linux and write the commands	07
	for each facility. B) Explain the output of following commands: 1) sort -t " " -k 5 emp   uniq -u 2) chmod u=rw, g=r file 3) Cut -d " " -f 4-6 file > file 1 4) ls -i 5) cat >> bca 6) cp -s stud stud1 7) find /home -type d -name backup -print	07
Q.7	<ul> <li>Write short notes on the following (Any two)</li> <li>1) FTP</li> <li>2) Types of Linux Partition</li> <li>3) Hierarchy of File System</li> </ul>	14

3) Hierarchy of File System

# B.C.A. (Semester – V) (New) (CGPA) Examination, 2017 INTRODUCTION TO DATA MINING AND WAREHOUSING

Day & Date: Wednesday, 19-04-2017

Max. Marks: 70

Time: 10.30 AM to 01.00 PM

### **N.B.**: 1) All questions are **compulsory**. 4) Figures to the right indicate full marks.

Q.1	A)	<ul> <li>Choose correct alternatives:</li> <li>1) predicts future trends, patterns &amp; behaviours, allowing top level managers to make decisions.</li> </ul>	14
		<ul><li>a) Metadata</li><li>b) Data Mining</li><li>c) Data Marts</li><li>d) Data Warehouse</li></ul>	
		<ul> <li>2) Star scheme consists of fact tables.</li> <li>a) One b) Two c) Three d) Many</li> </ul>	
		<ul> <li>3) Data warehouse contain type of data which are not available in operational environment.</li> <li>a) Normalize b) Denormalize</li> <li>c) Summarize d) Metadata</li> </ul>	
		<ul> <li>4) Noisy values can be handled by using technique.</li> <li>a) Binning b) Regression</li> <li>c) Clustering d) All of these</li> </ul>	
		<ul> <li>5) Data found in data warehouse is</li> <li>a) Subject Oriented</li> <li>b) Time Variant</li> <li>c) Integrated</li> <li>d) All of these</li> </ul>	
		<ul> <li>6) Total number of transactions supporting X in T is called as</li> <li>a) Confidence</li> <li>b) Support Count</li> <li>c) Association</li> <li>d) None of these</li> </ul>	
		<ul> <li>7) The long form of ETL is</li> <li>a) Extraction Transformation and Loading</li> <li>b) Extraction Tool for Loading</li> <li>c) Extra Transformation and Loading</li> <li>d) Estimated Transformation Loading</li> </ul>	
		<ul> <li>8) Two items are totally co related when correlation value is</li> <li>a) Zero</li> <li>b) One</li> <li>c) Greater than one</li> <li>d) Less than one</li> </ul>	

- 9) \_\_\_\_\_ of web mining uses the logs of web access.
- a) Web Usageb) Web Contentc) Web Structured) All of these
- 10) Parallel Processing speed up query processing, data loading and index creation.
  - a) True b) False
- 11) Unstructured data such as text document can be mined using technique.
  - a) Web Mining
- b) Unstructured Mining
- a) Web Mining c) Text Mining d) None of these
- 12) Association Rule mining is predictive data mining technique. a) True b) False
- 13) Data with missing values are known as Inconsistent data. a) True b) False
- 14) In data reduction, data compression must be lossless compression. a) True b) False

#### Q.2 Answer the following:

- a) Explain data visualization and parallel processing in detail. 07
- b) Explain difference between operational data processing and analytical 07 data processing.

#### Q.3 Answer the following:

- a) What is Web Mining? Explain Web Mining in detail. 07
- b) Define data ware house and data mining. Explain metadata in detail. 07

#### Q.4 Attempt any one.

- a) Explain different techniques used in data reduction and data transformation.
- b) Explain Data Mining Functionalities in detail.

#### Q.5 Attempt any one.

- a) What are major issues in Data Mining? Explain each in detail.
- b) What is support and confidence? Explain Apriori property. Explain Apriori algorithm in detail. Find strong association from following table. (Min support=2 and min confidence=70%)
  - Tr. ID List of Items

T1	A, C, D
T2	B, C, E
Т3	A, B, C, E
T4	B, E

14

Max. Marks: 70

# B.C.A. (Semester – V) (New) (CGPA) Examination, 2017 MANAGEMENT INFORMATION SYSTEM

Day & Date: Friday, 21-04-2017

Time: 10.30 AM to 01.00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt any one question from Q. 5 and 6.
  - 4) Figures to the right indicate full marks.

#### Q.1 A) Choose correct alternatives:

- 1) Database is pivotal to
  - b) EIS a) MIS c) TPS d) OAS
- Some of the MIS application in service industry is \_\_\_\_\_.
  - a) Airline b) Manufacturing
  - c) Production
- d) None of these
- Which of the following is not a characteristic of good information system?
  - a) Inter changeabilityb) Relevancec) Cost Effectivenessd) Timelines
- 4) Which of the system uses multi dimensional data analysis?
  - a) DSS b) MIS
  - c) ESS d) All of the above

### 5) Long form of CRM is

- a) Cost Reliable Management
- b) Customer Relationship Management
- c) Crime Relationship Management
- d) Customer Redirection Management
- 6) Which of the following is not a class of information system application?
  - a) Database Management System
  - b) Decision Support System
  - c) Expert System
  - d) Management Information System
- Knowledge based system support \_
  - a) Knowledge creation
- b) Knowledge support
- c) Knowledge of Dissemination d) All of the above

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Q.1	B)	<ul> <li>Answer one sentence:</li> <li>1) KMS stands for.</li> <li>2) BIS stands for.</li> <li>3) ESS stands for.</li> <li>4) SMS stands for.</li> <li>5) SCM stands for.</li> <li>6) ERP stands for.</li> <li>7) Example of MIS in service sector.</li> </ul>	07
Q.2	a) b)	<b>ite a short note (Any two)</b> What is meant by organization? Explain features of organization. Explain the role and importance of Information System. Explain the role of Manager in Organization.	14
Q.3	a) b)	<b>ite a short note (Any two)</b> Define decision making and Explain the decision making life cycle. Define MIS and Explain characteristics of MIS. Define ERP and Explain advantage and disadvantage of ERP.	14
Q.4	a) b)	<b>ite a short note (Any two)</b> Explain business intelligence system and their benefits. Explain the scope of MIS. Explain the security and control.	14
Q.5		Explain the application of MIS in the service industry. Explain the advantage and disadvantage of SCM.	07 07
Q.6		Explain the system vulnerability. Explain the features of Executives Information System.	07 07
Q.7	a) b) /	<b>ite a short note (Any two)</b> Explain classification of DSS. Application of MIS in Manufacturing. Explain the CRM.	14

### B.C.A. (Semester – V) (Old) Examination, 2017 ADVANCED JAVA – I

Day & Date: Tuesday, 11-04-2017

Max. Marks: 80

Time: 10.30 AM to 01.30 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
    - 3) Attempt any one question from Q. 5 and 6.
    - 4) Figures to the **right** indicate **full** marks.

#### Q.1 A) Choose correct alternatives:

10

- 1) Which class can handle any type of request so it is protocol-independent?
  - a) GenericServlet c) Both a and b
- b) HttpServlet
- d) None of the above
- 2) Which method is used to perform DML statements in JDBC?
  - c) executeUpdate() a) execute() b) executeQuery()
  - d) executeResult()
- 3) What is the immediate super class of Applet class? a) Object b) Window c) Panel d) Component
- 4) A development descriptor describes \_\_\_\_\_.
  - a) Web component response settings
  - b) Web component settings
  - c) Web component request objects
  - d) All of the above
- 5) What tags are mandatory when creating HTML to display and applet?
  - a) name, height, width
    - b) code, name
  - c) codebase, height, width d) code, height, width
- 6) In HTTP Request \_\_\_\_\_ method is secured because data is not append in URL.
  - a) GET d) PUT b) POST c) Both a and b
- 7) In Session tracking which method is used in a bit of information that is sent by a web server to a browser and which can later be read back from that browser?
  - a) HttpSession
- b) URL rewriting

c) Cookies

- d) Hidden form fields
- 8) Which driver is called as Network protocol driver in JDBC?
  - a) Type-4 driver
- b) Type-1 driver
- c) Type-3 driver
- d) Type-2 driver

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	9)	AppletViewe a) bin	r tool is availat b) lib	ole in whic c) cla		d) source		
	10	)) Which chara CallableStat	acter is used to tement?	represen	t an input	parameter	in a	
		a) %	b) #	C) *		d) ?		
Q.1	) 2) 3) 4) 5)	threads. The JDBC-C statements p XML is case The life cycle Start() metho	DBC Bridge super Connection	upports m managed art the Ap	ultiple con I by servle plet.	current op	en	06
Q.2	b) Wri (tak	te a program t ke no. from tex	e cycle with sui to design an ap tbox and displa xplain steps in	plet to sh ay additio	ow Additio			06 06 04
0.2					lit'o ruloo			04
Q.3	b) Wri add	te a program t	explain XML s to insert employ ion) into employ og in Applet.	yee record	ds (empid	, empname		06 06 04
Q.4	b) Wri		tecture of JDB0 that demonstra declaration.		'servletCo	ontext obje	cť.	06 06 04
Q.5			Statements in J that demonstra					08 08
Q.6		at is session a vlet.	and explain any	v two sess	ion trackir	ng techniqu	ue in	08
	b) Exp	plain difference	e between inclu er interface wit	.,	••			08
Q.7	a) XM b) Adv c) Cor d) App	L Tags	n followings. disadvantages BC		-			16

Max. Marks: 80

Seat No.

# B.C.A. (Semester – V) (Old) Examination, 2017 VISUAL PROGRAMMING

Day & Date: Thursday, 13-04-2017

Time: 10.30 AM to 01.30 PM

**N.B.**: 1) Q.1 and Q.7 are compulsory.

2) Attempt any two questions from Q. 2. 3 and 4.

3) Attempt any one question from Q. 5 and 6.

## Q.1 A) Choose correct alternatives:

- 1) Which of the following is the correct way to find out the number of elements currently present in an ArrayList Collection called arr?
  - a) arr.Count b) arr.Capacity
  - c) arr.UpperBound d) arr.Length
- 2) Which property determines whether a control is displayed to the user?
  - a) Hide c) Visible b) Show d) Enabled
- In C# variables are categorized into \_
  - b) Reference Types a) Value Types c) Both a and b d) All of these
- 4) An interface can contain declaration of b) Events c) Indexers d) All of these a) Methods
- 5) The Tick event is found only in \_\_\_\_\_object. c) Timer a) Button b) Label d) TextBox
- 6) In a HashTable, Key cannot be null, but Value can be null. a) True b) False
- 7) Which of the following is NOT a .NET Exception class?
  - a) StackMemoryException
  - b) DivideByZeroException
  - c) OutOfMemoryException
  - d) IndexOutOfRangeException
- 8) Which of the following is not a C# keyword? a) private b) delegate c) implements d) event
- 9) \_\_\_\_\_assemblies can be stored in Global Assembly Cache.
  - a) Private Assemblies c) Public Assemblies
- b) Shared Assemblies
  - d) Protected Assemblies

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	<ul><li>10) Default access specifier for class is</li><li>a) public b) internal c) protected d) none of these</li></ul>	
	<ul><li>11) Static constructors does not have any access modifiers.</li><li>a) True</li><li>b) False</li></ul>	
	<ul> <li>12) Which of the following class is not related to the System.IO namespace?</li> <li>a) StreamReader</li> <li>b) StreamWriter</li> <li>c) StreamFile</li> <li>d) StringReader</li> </ul>	
	<ul> <li>13) JVM compiler of .Net compiles MSIL into native code.</li> <li>a) True</li> <li>b) False</li> </ul>	
	<ul> <li>14)method terminates the execution of thread.</li> <li>a) Start()</li> <li>b) Suspend()</li> <li>c) Sleep()</li> <li>d) Abort()</li> </ul>	
	<ul> <li>15) Delegates may be defined at</li> <li>a) inside a class</li> <li>b) outside of classes</li> <li>c) Both a &amp; b</li> <li>d) None of these</li> </ul>	
	<ul> <li>16) Which of the following is the root of the .NET type hierarchy?</li> <li>a) System.Object</li> <li>b) System.Type</li> <li>c) System.Base</li> <li>d) System.Parent</li> </ul>	
Q.2	<ul> <li>A) Write a program to demonstrate multithreading.</li> <li>B) What is DataSet? Explain with its advantages.</li> <li>C) Differentiate Array and ArrayList class.</li> </ul>	06 06 04
Q.3	<ul> <li>A) What is a window service? Explain its advantages.</li> <li>B) What is ADO.Net? Explain in detail.</li> <li>C) Give the differences between struct and class.</li> </ul>	06 06 04
Q.4	<ul> <li>A) Explain assemblies with features.</li> <li>B) Explain StreamReader and StreamWriter classes.</li> <li>C) Write note on operator overloading.</li> </ul>	06 06 04
Q.5	<ul> <li>A) Explain the term:</li> <li>1) Label 2) TextBox 3) CheckBox 4) RadioButton</li> <li>B) What is event? Explain with suitable example.</li> </ul>	08 08
Q.6	<ul> <li>A) Create a window application to insert a new record in student table using stored procedure.</li> <li>B) What is generic class? Explain with different examples.</li> </ul>	08 08
Q.7	<ul> <li>Write short notes on the following (Any four)</li> <li>1) Static constructor</li> <li>2) Boxing and Unboxing</li> <li>3) Anonymous method</li> <li>4) SDI and MDI</li> <li>5) CTS</li> </ul>	16

# B.C.A. (Semester – V) (Old) Examination, 2017 LINUX AND SHELL PROGRAMMING

Day & Date: Monday, 17-04-2017

Max. Marks: 80

16

Time: 10.30 AM to 01.30 PM

- *N.B.*: 1) Q.1 and Q.7 are compulsory. 2) Attempt any two questions from Q. 2. 3 and 4.
  - 3) Attempt **any one** question from Q. **5** and **6**.
  - 4) Figures to the **right** indicate **full** marks.

### Q.1 A) Choose correct alternatives:

- Which among the following component directly interacts with system hardware?
   a) Shell b) Commands c) Kernel d) Applications
- 2) Which command is used to copy all files having the string chap and any two characters after that to the progs
  - directory? a) cp chap ?? Progs b) cp chap\* progs
  - c) cp chap [12] /progs/\*.\* d) cp chap ?? /progs/\*
- 3) Which command is used to display all the files including hidden files in your current and its subdirectories?
  a) Is-aR
  b) Is-a
  c) Is-R
  d) Is-I
- 4) Which of the following commands will allow the user to search contents of a file for a particular pattern?a) touchb) grepc) findd) Is
- 5) Which command gives the first byte where the difference is in the file 1 & file 2?

```
a) diff b) comm c) cmp d) ls-c
```

- 6) The printer is found in the \_\_\_\_\_ directory. a) /etc b) /dev c) /lib d) /printer
- 7) \_\_\_\_\_command is used with vi editor to replace text from cursor to right.
  a) S
  b) s
  c) R
  d) r
- 8) In Linux everything stored as a \_\_\_\_\_
  a) file b) directory
  c) executables d) None of the above

- 9) Which file contains the file systems to be automatically mounted during boot?
  - a) /etc/mount b) /etc/fstab

c) /etc/inittab

- d) /etc/boot
- 10) What command is used with file named 'letter' to remove the executable permission from the user and assign read permission to the group and others?
  - a) chmod go + x, u x letter b) chmod g x, uo + r letter
  - c) chmod go + r, u + x letter d) chmod u x, go + r letter
- 11) The wild card character which matches a string of characters is \_\_\_\_\_
  - a) \$ b) < c) ? d) \*
- 12) \_\_\_\_\_tool is used to check and repair Linux file systems. a) mkfs b) fdisk c) fsck d) mount
- 13) Which file contains the name servers to be used by the local machine for hostname resolution?
  - a) /etc/services/ b) /etc/hosts
  - c) /etc/resolv.conf d) /etc/network/interface
- 14) Which operator is used in shell script for greater than or equal?
  - a) -ge b) >= c) gte d) >gte
- 15) Which of the following command is used to access the network in unsecured way?
  - a) ssh b) telnet c) tail d) grep
- 16) File Manager is supported by \_\_\_\_\_
  a) GNOME
  b) KDE
  c) Both a and b
  d) None
- 06 Q.2 A) Explain the procedure to create the partitions of Linux. B) Explain foreground and background jobs with its advantages. 06 C) Write a note on ex mode. 04 06 Q.3 A) Explain find command with suitable example. B) How to create and extract files from archive files. 06 C) What is shell? Explain different types of shell. 04 06 A) Differentiate chown and chgrp with suitable example. Q.4 B) Give the syntax and example of following commands. 06 1) cp 2) rm 3) mv C) Write a note on x-window system. 04

Q.5	<ul> <li>A) Write a shell script to display prime numbers from 500 to 1000.</li> <li>B) Explain the term: 1) LVM 2) rsh 3) ping</li> </ul>	08 08
Q.6	<ul> <li>A) What is the architecture Linux? Explain different features of Linux Operating System.</li> <li>B) Write a menu driver shell script to do the following operations.</li> <li>1) create hard link a file from bca file</li> <li>2) To Remove a Write &amp; Read permission of a owner</li> <li>3) To display non repeated records from file bca</li> <li>4) To cp a file</li> </ul>	08 08
Q.7	<ul> <li>Write short notes on the following (Any four)</li> <li>1) GNOME</li> <li>2) Super Block</li> <li>3) Ipr and Ipq command</li> <li>4) LDAP</li> <li>5) GRUB</li> </ul>	16

Page **3** of **3** 

# B.C.A. (Semester – V) (Old) Examination, 2017 INTRODUCTION TO DATA MINING AND WAREHOUSING

Day & Date: Wednesday, 19-04-2017

Max. Marks: 80

16

Time: 10.30 AM to 01.30 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
    - 3) Attempt any one question from Q. 5 and 6.
    - 4) Figures to the **right** indicate **full** marks.

#### A) **Choose correct alternatives:** Q.1

- 1) The goal of star schema design is to simplify
  - a) Logical data model
    - b) Physical data model
  - c) Conceptual data model d) None of these
- 2) Change data capture is one of the challenging technical issues in
  - a) Data Extraction
- b) Data Loading
- c) Data Transformation
- d) Data Cleansing
- 3) The input to the data warehouse can come from OLTP or transactional system but not from other third party database. a) True b) False
- 4) Normalization effects performance. a) True b) False
- 5) Collapsing tables can be done on the \_\_\_\_\_relationship.
  - a) One-to-One b) Many-to-Many c) Both a and b
    - d) None of these
- 6) Data warehouse is about taking/collecting data from different sources. b) Identical
  - a) Harmonized
  - a) Harmonizedc) Homogeneous d) Heterogeneous
- 7) \_\_\_\_\_is class of Decision Support Environment.
  - a) OLTP b) OLAP c) DBMS d) Network
- 8) D-normalization speeds up \_\_\_\_
  - a) Data retrieval
  - c) Data extraction
- b) Data duplication d) Data loading
- 9) The fact table is a way of visualizing as an \_\_\_\_\_cube.
  - b) Un-rolled
  - a) Rolled Up c) Rolled Down d) None of these
- 10) Full and incremental Extraction are the types of \_\_\_\_\_Extraction. a) Logical b) Physical c) Both a and b d) None of these

			50
	<ul><li>11) Selectivity is low in</li><li>a) Data Warehouse</li><li>c) OLTP</li></ul>	environment. b) DBMS d) None of these	
	12) The input to the data ware Analytical system. a) True	house can come from OLAP or b) False	
	systems to deal mas	echanism to cater the limitations of sive data sets with high terogeneous data recourses etc. c) DSS d) DWH	
	<ul><li>14) For a DWH project, the key product experience.</li><li>a) Tools</li><li>c) Software</li></ul>	y requirements areand b) Industry d) None of these	
	15) DSS queries do not involve a) True	e a primary key. b) False	
	<ul> <li>16) Multidimensional database</li> <li>format to store pre-</li> <li>a) File</li> <li>c) Aggregate</li> </ul>	e typically use proprietary summarized cube structures. b) Application d) Database	
Q.2	<ul> <li>A) What are the strategies for data</li> <li>B) Explain Data mining Task Primit</li> <li>C) What are Parallel Processing Ha implementations?</li> </ul>	ives.	06 06 04
Q.3	<ul><li>A) Explain Market Basket Analysis</li><li>B) What are the applications of data</li><li>C) Explain the basic procedure of p</li></ul>	a mining? Explain.	06 06 04
Q.4	<ul><li>A) Compare OLTP and OLAP.</li><li>B) Explain data mining problems for C) Note on Data Fusion.</li></ul>	r different types of data.	06 06 04
Q.5	<ul><li>A) In real-world data, tuples with m are a common occurrence. Deso this problem.</li><li>B) What are different types of data</li></ul>	cribe various methods for handling	08 08
Q.6	warehouse to support decision r A) Explain Association Rule Mining	C	08
-	B) Explain three-tier data warehous		08
Q.7	<ul> <li>Write short notes on the followin</li> <li>1) Snowflake schema</li> <li>2) Need of data warehouse</li> <li>3) Advanced Visualization Techniq</li> <li>4) OLAP Tools</li> <li>5) Database Data</li> <li>6) Data reduction</li> </ul>		16

# B.C.A. (Semester – V) (Old) Examination, 2017 MANAGEMENT INFORMATION SYSTEM

Day & Date: Friday, 21-04-2017

Max. Marks: 80

Time: 10.30 AM to 01.30 PM

- N.B.: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt any one question from Q. 5 and 6.

#### Q.1 A) Fill in the blanks:

- 1) CRM stand for
- 2) The \_\_\_\_\_\_ decision is based on the rules & decision making are pre-determined.
- 3) A \_\_\_\_\_ is a determined course of action to be taken in future.
- is a used to collect of data store & process data to present information to a manager.
- 5) KMS short form of \_\_\_\_
- 6) A \_\_\_\_\_\_ is the choice out of several option made by a decision maker to achieve some objectives in a given situation.

#### Q.1 B) Choose correct alternatives:

- 1) is the component of information system.
  - a) Hardware b) Product
  - c) Customer service d) Manufacture
- 2) \_\_\_\_\_ is a back bone of an organization.
  - a) Data b) User c) People d) Information

### 3) AI stands for

- a) Art information c) Access information d) Annual Income
- 4) \_\_\_\_\_ is the close linkage of activities involved in buying, making & moving the product. b) SSM c) MIS d) SCM a) SMS
- 5) Enterprise system supports \_\_\_\_
  - a) Manufacturing Process b) Financial & Accounting
  - c) Human Resource Process d) All of the above

06

	<ul> <li>6) Long form of ESS</li> <li>a) Executive Support System</li> <li>b) Executive Standard System</li> <li>c) Executive Short System</li> <li>d) Executive Status System</li> </ul>	
Q.1	<ul> <li>C) State whether True or False:</li> <li>1) A decision which can be made by using a rule or a model is the non-programmable decision.</li> <li>2) Artificial Intelligence focus on decision support to specific business problem.</li> <li>3) ERP package can handle entire range of business.</li> <li>4) DSS support decision making act of level.</li> </ul>	04
Q.2	<ul> <li>A) Write down security of an information system.</li> <li>B) Write down the steps of decision making.</li> <li>C) Write down the meaning and needs of CRM.</li> </ul>	06 06 04
Q.3	<ul><li>Write a short notes on:</li><li>A) Decision support system and its benefit.</li><li>B) Nature and scope of MIS.</li><li>C) Concept of data and information.</li></ul>	06 06 04
Q.4	<ul><li>A) Write down the features of Organizations.</li><li>B) Write down characteristics of computerized MIS.</li><li>C) Write down the benefits of BIS.</li></ul>	06 06 04
Q.5	<ul> <li>A) What is difference between manufacturing management and service management?</li> <li>B) What are the advantages of ERP?</li> </ul>	08 08
Q.6	<ul> <li>A) Explain the objective and characteristics of MIS.</li> <li>B) Explain application in Hotel Management System.</li> </ul>	08 08
Q.7	<ul> <li>Write a short notes on (Any four)</li> <li>1) Components of DSS</li> <li>2) System vulnerability</li> <li>3) MIS development process</li> <li>4) Concept of system</li> <li>5) Process of SCM</li> </ul>	16

Max. Marks: 70

Seat No.

# B.C.A. (Semester – VI) (New) (CGPA) Examination, 2017 ADVANCED JAVA – II

### Day & Date: Wednesday, 12-04-2017

Time: 10.30 AM to 01.00 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt **any two** questions from Q. **2**, **3** and **4**.
  - 3) Attempt **any one** question from Q. **5** and **6**.
  - 4) Figures to the **right** indicate **full** marks.

### Q.1 A) Choose correct alternatives:

- 1) What does "<generator class="native" />" means?
  - a) generate primary key
  - b) generate tables based on configuration
  - c) generate sql statement on configuration
  - d) None of these

### 2) What are different types of Bean injection in spring?

- a) Constructor b) Setter
- c) Setter and getter d) Both a and b
- 3) All the HB annotations are defined in the \_\_\_\_\_ package.
  - a) org.hibernate.\*; b) org.hibernate. annotation;
  - c) javax.persistence.\*; d) javax.annotation.\*;
- 4) Which technology is used to create web application just like Servlet technology?
  - a) Internationalization b) JSP
  - c) Applet d) Hibernate
- 5) Which tag is used for creating a simple data source suitable only for prototyping?
  - a) sql:setDataSource
- b) sql:paramd) sql:getDataSource
- c) sql:transaction
- 6) In Spring JDBCTemplate which interface can be used to fetch records from the database?
  - a) PreparedStatement
    - b) RowMapper
  - c) ResultSetExtractor d) JDBCData

0.4	D)	SLR-U –	• 32
Q.1	B)	<ul> <li>State whether True or False:</li> <li>1) In JSP session object is used to get initialization parameter from the web.xml</li> </ul>	04
		<ol> <li>The <constructor-arg> sub-element of <bean> is used for constructor injection.</bean></constructor-arg></li> </ol>	
		<ol> <li>The <foreign-key> sub element of <joined-subclass> is used to generate the foreign key in the subclass mapped table.</joined-subclass></foreign-key></li> <li>WAP stands for Wireless Application Program.</li> </ol>	
Q.1	C)	Fill in the blanks:	04
		<ol> <li>The sub-element of <bean> is used for setter injection.</bean></li> </ol>	
		<ul> <li>2) The JSTL core tag removes the variable from either a first scope or a specified scope.</li> <li>3) In spring, AOP stands for</li> </ul>	
		4) is also abbreviated as I18N.	
Q.2	A)   B)	<b>te answer of the following questions (Any two)</b> Explain JSTL Core Tags with suitable example. List out Advantages of Hibernate. Write a program to demonstrate that implementation of setter	14
	i	njection in spring.	
Q.3	A) \ B) I	<b>te answer of the following questions (Any two)</b> Write a program that use of any 3 implicit objects in JSP. Explain Architecture of WAP. Explain PreparedStatement interface of JDBCTemplate in spring.	14
Q.4	A) I B) \	te answer of the following questions (Any two) Explain Hibernate Architecture. Write a program to demonstrate use of <jsp:usebean> tag in JSP. Explain advantage and disadvantages of WAP.</jsp:usebean>	14
Q.5	A) \	Write a program to store student's information such as rollno,	07
	Í	name, contact_no, etc. using JSTL SQL Tags. What is JSP? Explain different types of Tag Elements.	07
Q.6		Explain Tablet Per Subclass inheritance Mapping with suitable	07
	B) \ ;	example. Write a program to display employee records such as eid, name, salary, etc. using ResultSetExactor interface of SpringJDBCTemplate.	07
Q.7	1)、	i <b>te short notes on (Any Two)</b> JSP Life Cycle TPH using Annotation	14
	3) \$	Spring core container Page	<b>2</b> of <b>2</b>

# B.C.A. (Semester – VI) (New) (CGPA) Examination, 2017 CYBER LAWS AND SECURITY CONTROL

Day & Date: Saturday, 15-04-2017

Time: 10.30 AM to 01.00 PM

# **N.B.**: 1) Q.1 and Q.7 are compulsory.

- 2) Attempt any two questions from Q. 2, 3 and 4.
- 3) Attempt **any one** question from Q. **5** and **6**.

b) EDI

4) Figures to the right indicate full marks.

#### Q.1 Choose correct alternatives: **A**)

- \_is exchange of document in standard electronic form 1) between organizations in an automatic manner.
  - a) E-Commerce
  - c) Both a and b d) None of these
- 2) is the right to prevent other from copying all the work in which copyright subsists.
  - a) Law b) Copyright
  - c) Right d) None of these
- 3) key is used to symmetric key cryptography.
  - a) Public b) Private
  - c) Both a and b d) None of these
- 4) Information Technology Act in India was amended in
  - a) 2000 b) 2004
  - c) 2008 d) 2010
- 5) is the right over creation of the mind, both artistic & commercial.
  - a) Intellectual property right b) Copyright
  - d) Trademark c) Patent
- 6) Which of the following comes under Cycle Crime?

  - a) Intellectual propertyb) Pornographyc) Online gamblingd) All of above
- 7) IT Act 2000 made amendment on which of the following existing laws?
  - a) IPC

- b) Indian Evidence Act
- c) Banker Book Evident Act d) All of above

Max. Marks: 70

Q.1	<ul> <li>B) Answer in one sentence: <ol> <li>What is mean by E-Commerce?</li> <li>What is IT Act?</li> <li>What is mean by Copyright?</li> <li>What is Cyber Law?</li> <li>What is Model Law?</li> <li>What is Authentication?</li> <li>What is E-Market?</li> </ol> </li> </ul>	07
Q.2	<ul><li>A) Explain security aspect in cyber law.</li><li>B) Explain theft of information in detail.</li></ul>	07 07
Q.3	<ul> <li>A) Explain advantages &amp; disadvantages of E-Commerce.</li> <li>B) Explain Digital Signature with diagram.</li> </ul>	07 07
Q.4	<ul> <li>A) Explain IT Act 2000 in detail.</li> <li>B) Explain criminal aspect &amp; contractual aspect in detail.</li> </ul>	07 07
Q.5	<ul> <li>A) Explain types of security.</li> <li>B) Write down difference between Authentication &amp; Authorization.</li> </ul>	07 07
Q.6	<ul><li>A) Explain Backup strategies.</li><li>B) Explain UNCITRAL scope &amp; objectives.</li></ul>	07 07
Q.7	<ul> <li>Write short notes:</li> <li>1) Backup</li> <li>2) E-Commerce Application</li> <li>3) Duties of Subscribers</li> <li>4) Cyber Crime</li> </ul>	04 04 04 02

Page **2** of **2** 

# B.C.A. (Semester – VI) (New) (CGPA) Examination, 2017 SOFTWARE PROJECT MANAGEMENT

Day & Date: Tuesday, 18-04-2017

Time: 10.30 AM to 01.00 PM

# **N.B.**: 1) Q.1 and Q.7 are compulsory.

- 2) Attempt **any two** questions from Q. **2**, **3** and **4**.
- 3) Attempt **any one** question from Q. **5** and **6**.
- 4) Figures to the **right** indicate **full** marks.

### Q.1 A) Choose correct alternatives:

- 1) The return on investment (ROI), also known as \_\_\_\_\_.
  - a) Accounting rate of return b) Accounting return
  - c) Audit rate of return
- d) Back investment
- \_\_\_\_has overall responsibility for setting, monitoring and modifying objectives.
  - a) Project steering committeec) Developer
- b) Designerd) Analyst
- 3) DSDM stands for \_\_\_\_\_
  - a) Dynamic Study Development Method
  - b) Diamond System Development Method
  - c) Dynamic System Development Method
  - d) Dynamic System Deployed Method
- 4) The collection of projects that an organization undertaken within a particular planning cycle is sometimes referred to as a \_\_\_\_\_.

a) Portfolio b) Document file c) Plan file d) Project file

- 5) \_\_\_\_\_model is also known as once-through model.
  - b) Rapid Application Mode
  - a) V-Process c) Waterfall

- d) Both a and b
- 6) \_\_\_\_\_is the simplest and oldest techniques for tracking project progress.
  a) Slip Chart b) Gantt Chart c) Flow Chart d) Ball Chart
- 7) Which of the following is/are considered stakeholder in the software process?
  - a) Customer
  - b) Internal to the project team
  - c) External to the project team
  - d) All of the above

Max. Marks: 70

# SLR-U - 34

	OEK O	VT
Q.1	<ul> <li>B) State True or False:</li> <li>1) The payback period is the time taken to break even or pay back the initial investment.</li> <li>2) Software quality assurance is an umbrella activity.</li> <li>3) Software project planning is task, it is performed before the production of software actually starts.</li> <li>4) PERT stands for Program Entry and Review Technique.</li> <li>5) Quality planning is the process of developing a quality plan for project.</li> <li>6) CPM stands for clean path method.</li> <li>7) The forward pass is carried out to calculate the earliest dates on which each activity may be started and completed.</li> </ul>	07
Q.2	<ul><li>A) What is cash flow forecasting?</li><li>B) Where are estimates done of software project?</li></ul>	07 07
Q.3	<ul> <li>A) Explain the Plans, Methods and Methodologies.</li> <li>B) Explain the spiral model in details.</li> </ul>	07 07
Q.4	<ul> <li>A) Explain setting objectives and goals of project.</li> <li>B) Explain the risk planning in details.</li> </ul>	07 07
Q.5	<ul><li>A) Explain the step wise project planning in details.</li><li>B) Explain the COCOMO model in details.</li></ul>	07 07
Q.6	A) What are the activities covered by Software Project	07
	<ul><li>Management?</li><li>B) What is incremental delivery approach of project? Explain with advantages and disadvantages.</li></ul>	07
Q.7	<ul> <li>Write short notes on (Any four)</li> <li>1) Grant Chart</li> <li>2) Software Quality Measures</li> <li>3) Leadership</li> <li>4) V-Process Model</li> <li>5) The forward pass and backward pass</li> </ul>	14

Page **2** of **2** 

# B.C.A. (Semester – VI) (New) (CGPA) Examination, 2017 **WEB TECHNOLOGY - III**

Day & Date: Thursday, 20-04-2017

Max. Marks: 70

14

Time: 10.30 AM to 01.00 PM

# **N.B.**: 1) All questions are **compulsory**.

4) Figures to the right indicate full marks.

### Q.1 A) Choose correct alternatives: 1) In state management technique, data is included in URLs? a) Session b) View c) Cookies d) Query String 2) is not authentication type in ASP.NET. a) Windows b) Login d) Form c) Passport 3) \_\_\_\_\_configuration file stores website setting such as connection string or authentication cardinals. a) Web.config b) App.Config c) Machine.Config c) Global.Con c) Global.Config 4) event is used to assign master page at runtime. a) Page\_ Loadb) Page\_ PreInitc) Page\_ Renderd) Page\_ Click 5) Global.asax file is used to store a) Session and Application Information b) Theme Information c) Configuration Information d) All of these 6) is used to store personalization information. a) Profile.Store() b) Profile.Save() c) Personalize.Store() d) Personalize.Save() 7) Default event for BulletedList control is a) SelectedIndexChangedb) SelectedValueChangedc) SelectedItemChangedd) SelectedItemClick

- location stores website at local or remote web server.
  - a) File System
  - c) HTTP

- b) FTP
- d) Web Server

- 9) validation control is used to validate mobile number.
  - a) RegularExpression b) Range
  - c) Custom
    - d) Compare
- 10) Default value for ActiveViewIndex property for MultiView Control is -1.
  - a) True b) False

#### 11) \_\_\_\_\_property of CheckBox control is used to check whether checkbox is true or not.

- a) True b) Checked
- d) Check c) States
- 12) Default value for Trace attribute of Page directive is True.
  - a) True b) False

#### 13) \_\_\_\_\_ property of TextBox control make TextBox non editable/ editable.

- a) Edit b) Visible
- c) SelectionMode d) ReadOnly
- 14) Every master page must contain <asp:Content> tag. a) True b) False

#### Answer the following: Q.2

- a) Explain Web.config and Machine.config files in detail. 07 07
- b) Explain different application folders used in ASP.Net.

#### Q.3 Answer the following:

- a) What is personalization? Explain personalization properties with 07 example.
- b) What is cookies? Explain how to read and write cookies with 07 example.

#### Q.4 Attempt any one.

- a) Explain with example.
  - 1) Adrotator Control
  - 2) Login control group
- b) What is Validation? What are different types of validation? Explain all validation control with example.

Q.5	Attempt any one.	14
	a) Explain following terms.	
	1) Themes and Skins	
	2) Silverlight	
	h) Eveloin with everals	

- b) Explain with example.
  - 1) AJAX Extension group
  - 2) Wizard control

Seat No.

# B.C.A. (Semester – VI) (Old) Examination, 2017 ADVANCED JAVA – II

Day & Date: Wednesday, 12-04-2017

Time: 10.30 AM to 01.30 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
  - 3) Attempt **any one** question from Q. **5** and **6**.
  - 4) Figures to the **right** indicate **full** marks.

# Q.1 A) Choose correct alternatives:

- 1) AJSP page consists of which tags?
  - a) HTML tags c) Both a and b
- b) JSP tagsd) None of the above
- 2) Which tag is used to execute java source code in JSP?
  - a) Declaration tag b) Scriptlet tag
  - c) Expression tag
- d) None of these
- 3) The JSP include directive is used to include the contents of any resource it may be?
  - a) JSP file
- b) HTML file d) All mention
- c) Text file d) All mentioned above
- 4) Hibernate is an?a) Open Source b) Lightweight c) ORM d) All of these
- 5) Which of the following is not a core component of Hibernate?a) Transactionb) Providerc) Criteriad) Query
- 6) Which of the following element is used to represent one-to-one relationship in hibernate?
  - a) <many-to-one> b) <many-one>
  - c) <ManyToOne> d) None of the above
- 7) What is the scope of stateless bean?
  - a) global-session b) singleton
  - c) prototype d) request
- 8) What types of Dependency injection does spring supports?
  - a) Constructor based, Setter based
  - b) Constructor based, Setter based, Getter Based
  - c) Setter based, Getter based, Properties based
  - d) Constructor based, Setter based, Properties based

Max. Marks: 80

Q.1	B)	<ul> <li>Fill in the blanks:</li> <li>1) How many implicit objects are used in JSP</li> <li>2)method is used to re-read the state of the given instance from the underlying database.</li> <li>3) The long form of the term ORM is</li> <li>4)helps in gluing the classes together and same time keeping them independent.</li> </ul>	04
Q.1	C)	<ul> <li>State True/False:</li> <li>1) Hibernate framework simplifies the development of java application to interact with the database?</li> <li>2) Is query level caching mandatory in hibernate?</li> <li>3) The Session Factory is heavyweight object.</li> <li>4) JSP's provide better facilities for separation of page code and template data by mean of Java beans, EJBs and custom tag libraries?</li> </ul>	04
Q.2		Explain the different types of implicit objects used in JSP. Explain the architecture of hibernate with its elements.	08 08
Q.3		What are the features of WAP? Explain dependency injection in spring with example.	08 08
Q.4	-	Write a program to demonstrate jsp:useBean action tag. Explain the architecture of WAP.	08 08
Q.5		Explain the different types of interfaces used for custom tags in JSP. Write a JDBC program in spring to insert employee data using prepared statement.	08 08
Q.6		Explain Table per hierarchy (TPH) inheritance mapping with example. Write a program to implement mapping list in collection mapping using xml file.	08 08
Q.7	1) 2) 3) 4)	<b>Tite short notes on (Any Four)</b> Resultset Extracter in spring Applications of Hibernate Advantages of JSP over Servlet Applications of WAP with JSP JSTL core tags	16

Seat No.

Q.1

# B.C.A. (Semester – VI) (Old) Examination, 2017 CYBER LAWS AND SECURITY CONTROL

Day & Date: Saturday, 15-04-2017

Time

e: 10.3	30 AM to 01.30 PM	
	<ul> <li>N.B.: 1) Q.1 and Q.7 are compulsory.</li> <li>2) Attempt any two questions from Q. 2, 3 and 4.</li> <li>3) Attempt any one question from Q. 5 and 6.</li> <li>4) Figures to the right indicate full marks.</li> </ul>	
A)	Choose correct alternatives:       1         1) E-commerce scope is       a) Local         b) Global       c) National       d) Regional	16
	<ul> <li>2)is a virtual representation of Physical Market.</li> <li>a) E-Marketing</li> <li>b) E-goverence</li> <li>c) EDI</li> <li>d) Mobile Commerce</li> </ul>	
	<ul> <li>3) Ethics was invented by</li> <li>a) Immanuel Kant</li> <li>b) Thomas</li> <li>c) Rodircs</li> <li>d) Ritchie</li> </ul>	
	<ul> <li>4)is a exact copy of a program in seconds.</li> <li>a) Software Piracy</li> <li>b) Hardware Piracy</li> <li>c) Ethics</li> <li>d) Information</li> </ul>	
	<ul> <li>5) Cyber Law is contained in</li> <li>a) IT Act, 2000</li> <li>b) Negotiable Instrument Act</li> <li>c) Power of Attorney</li> <li>d) Code of Ethics</li> </ul>	
	<ul> <li>6)is a program which is offered at no cost.</li> <li>a) Freeware b) Saveware c) Copyright d) Preware</li> </ul>	
	<ul> <li>7)includes data, text, images, sound, voice, codes computer program, software &amp; databases.</li> <li>a) Data</li> <li>b) Information</li> <li>c) Function</li> <li>d) Process</li> </ul>	
	<ul> <li>8)means authentication of any electronic record by a subscriber by means of electronic Method.</li> <li>a) Addressee</li> <li>b) Access</li> <li>c) E-commerce</li> <li>d) Digital Signature</li> </ul>	
	<ul> <li>9)is a contract between the purchaser and publisher of the software.</li> <li>a) License b) Copy right c) Cyber Law d) IT Act</li> </ul>	
	Page 1 of	F 7

Max. Marks: 80

	<ul><li>10) Intellectual property rights</li><li>a) Copyright</li><li>c) Digital signature</li></ul>	are related with b) Software with licence d) None of these	
	<ul><li>11) When a software is pirated</li><li>a) Management</li><li>c) People</li></ul>	d, it harms b) Operator d) Software Developers	
	<ul> <li>12)helps to ensure pr</li> <li>individual data.</li> <li>a) Data Security</li> <li>c) Physical Security</li> </ul>	ivacy it also helps in protecting b) Network Security d) Logical Security	
B)	<ul> <li>State True or False:</li> <li>1) Software piracy is a victimal</li> <li>2) Bugs mean software error.</li> <li>3) Electronic gazette means false</li> <li>4) Cyber Law is mainly highlighted cyber world.</li> </ul>		04
B) '	Write down Information of legal Write down difference between		06 06
	E-Commerce. Short note on Data encryption.		04
B)	Explain the Information Society Explain Hardware & Software s Write a short note Security Aud	ecurity.	06 06 04
B)	Describe Moral, Ethics and Law Explain the scope of E-Comme Short note on Cyber Crime.	•	06 06 04
	What is Cyber Law? Explain the Write down Information Techno		08 08
	Explain the advantage & disadv What is Model Law? Explain the	vantages of E-Commerce. e UNCITRAL objectives & scope.	08 08
1) 2) 3) 3 4)	<b>te short notes on the followir</b> Electronic Record Intellectual Property Aspects Security E-Commerce Application Duties of Subscribers	ng. (Any four)	16

Q.2

Q.3

Q.4

Q.5

Q.6

Q.7

## B.C.A. (Semester – VI) (Old) Examination, 2017 SOFTWARE PROJECT MANAGEMENT

Day & Date: Tuesday, 18-04-2017

Max. Marks: 80

16

Time: 10.30 AM to 01.30 PM

- **N.B.**: 1) Q.1 and Q.7 are compulsory.
  - 2) Attempt any two questions from Q. 2, 3 and 4.
    - 3) Attempt any one question from Q. 5 and 6.
    - 4) Figures to the **right** indicate **full** marks.

#### A) Q.1 **Choose correct alternatives:**

- 1) A plan is necessary to
  - a) Organize the work
  - c) Mobilize resources
- b) Define the scope of work
- d) All of the above
- 2) Project is a planned activity. a) True b) False
- 3) The products handed over to the clients at the end of projects are called as \_\_\_\_\_
  - a) Software

- b) Application program
- c) Deliverable
- d) Intermediate products

### 4) The time between start and end of a task are

- a) Turnaround
- b) Elapsed

c) Throughput

- d) Pessimistic time
- 5) The first phase of waterfall mode is User requirements. a) True b) False
- 6) The standard way of evaluating the economic benefits of any projects is to carry out a
  - a) Price benefit analysis b) Cash flow analysis
  - c) Cost benefit analysis d) Fund flow analysis
- 7) The time taken to break even or pay back the initial investment is called
  - a) Back period c) Cash back period
- b) Payback period d) Rate of return
- 8) Risk management consists of
  - a) Risk analysis and risk estimation
  - b) Risk control and risk planning
  - c) Risk identification and monitoring
  - d) Risk control, planning, identification and monitoring

- 9) The working model of one or more aspects of the projected system is
- a) Evolutionary modelb) V-process modelc) Spiral modeld) Software prototyp
  - d) Software prototyping

10) The main goal of quality assurance is to \_\_\_\_\_

- a) Set coding standards
- b) Improve software project management
- c) Reduce the technical and programming risks in developing the software
- d) Specify corrective actions
- 11) \_\_\_\_\_relates to the effort needed to make changes to the software.
  - a) Functionalityb) Maintainalc) Reliabilityd) Efficiency b) Maintainability
- 12) \_\_\_\_\_\_ is classified into Functional and Non-functional. a) Project b) Requirements c) Start date d) Risk
- 10) is the method of recording and displaying the way in which targets have changed throughout the duration of the project. a) Gantt chart b) Bar chart c) Timeline d) Schedule
- 11) Cash flow forecast will indicate when expenditure and income will take place.
  - a) True b) False
- 12) Size/effort = \_\_\_\_\_
  - a) process rate c) project rate b) productivity rate
    - d) property rate
- 13) LOC means \_\_\_\_\_\_ a) Lines of code b) List of code c) Length of code d) Legend of c d) Legend of code
- Q.2 06 A) Explain main risk factors which may be encountered in the development of software. B) Explain V-process model. 06 C) Write a note on strategic assessment. 04 A) Explain the advantages and disadvantages of Lines of code 06 Q.3 (LOC) and function point counts (FPC) metrics for measuring system. B) What is critical path? Explain the significance of critical path. 06 C) Write note on requirement specification. 04 A) Explain cash flow forecasting. 06 Q.4 B) List and explain the objectives of activity planning. 06 C) Write short note on bottom-up estimating. 04 Page 2 of 3

Q.5	<ul> <li>A) Explain different levels of CMM.</li> <li>B) Explain the different stages in contract management in detail.</li> </ul>	08 08
Q.6	<ul> <li>A) Explain the term.</li> <li>1) Organizational Behavior</li> <li>2) Organizational Structure</li> </ul>	08
	B) Explain prototyping with its advantages in detail.	08
Q.7	<ul> <li>Write short notes on the following (Any four)</li> <li>1) Objectives for software developers</li> <li>2) Product Breakdown Structure (PBS)</li> <li>3) Cost schedules</li> <li>4) Importance of software quality</li> <li>5) Timeline chart</li> </ul>	16

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Seat	
No.	

### B.C.A. (Semester – VI) (Old) Examination, 2017 WEB TECHNOLOGY-III

Day & Date: Thursday, 20-04-2017

Max. Marks: 80

16

Time: 10.30 AM to 01.30 PM

**N.B.**: 1) Q.1 and Q.7 are compulsory.

2) Attempt any two questions from Q. 2, 3 and 4. 3) Attempt **any one** guestion from Q. 5 and 6.

### Q.1 A) Choose correct alternatives: 1) Extension of web service file crated in .NET Framework is . a) asmx b) aspx c) ascx d) aswx 2) control can be used to update only the portion of the page. a) UpdateProgress b) UpdatePanel c) ScriptManager d) Timer c) ScriptManager d) Timer 3) \_\_\_\_\_is not authentication type in ASP.NET. a) Form b) Windows c) Passport d) Login

4) In \_\_\_\_\_, the hidden form fields are used to store the state of objects on client side and returned back to server in subsequent request (as postback occurs) a) Session state

- b) Cookies state
- c) View state

- d) Query string state
- 5) All ASP.NET Web Form controls are inherit from class.

  - a) System.Web.UI.Pageb) System.Web.UI.WebControlc) System.Web.UI.Formd) System.Web.UI.PageControl
- 6) \_\_\_\_\_is a service provided by ASP.NET to suit a particular client's taste and preference.
  - a) AJAX

- b) Personalization
- c) WebService d) None of these
- 7) All application level setting such as Database connections, Error Page setting etc. can be done in the \_\_\_\_\_\_file.
  - a) Web.Configb) Machine.Configc) App.Configd) Application.Config
- d) Application.Config
- 8) By default AutoPostBack property is true for \_\_\_\_\_\_control.
  - b) LinkButton d) ListBox a) HyperLink
  - c) TextBox

- 9) WCF is nothing but a) Window Communication Foundation b) Web Communication Foundation c) Web Common Function d) Windows Common Function 10) property of radio button is used to group the buttons. a) Group מטס b) GroupName c) RadioGroup d) Text 11) By default value for ParentLevelDisplay property of SiteMapPath control is \_\_\_\_ c) 1 d) None of these b) 0 a) -1 12) For validating Pin code number, \_\_\_\_\_validation control is useful. a) Range b) Required c) Compare d) Regular Expression 13) The directives's Duration attribute determines how long the page is cached. a) @PageCatche b) @MasterCatche c) @Catche d) @OutputCache 14) Every master page contain <asp:Content>tag. a) True b) False 15) For CircularHotSpot in ImageMap, \_\_\_\_\_numbers of parameters need to set. a) 1 b) 2 c) 3 d) More than 6 16) elements in advertisement file is used to specifies categories. a) Keyword b) Impression c) Alternat Text d) Keyword Filter 06 Q.2 A) Explain Partial class in detail. B) What is post back? Explain IsPostBack and AutoPostBack with 06 example. C) Explain Multiview and View control with example. 04 Q.3 A) What is ImageMap? Explain ImageMap with example. 06 B) What is Web Service? Explain WSDL in detail. 06 C) Explain Web.Config file in detail. 04 06 Q.4 A) What is AJAX? Explain Client side and server side AJAX. B) Explain membership provider in detail. 06 C) Explain sitemap file with example. 04 A) What is application folder? Explain different application folder 08 Q.5 used in ASP.Net.
  - B) What is validation? Explain all validation controls with example. **08**

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Q.6	<ul> <li>A) Design Web page which display 10 friends' birthday on calendar.</li> <li>B) Explain List Class with example.</li> </ul>	08 08
Q.7	Write short notes on the following (Any four)	16

# Write short notes on the following (Any four)1) SiteMapPath Control2) Session State Q.7

- 3) Cookies
- 4) Silverlight
- 5) Personalization properties6) Wizard Control

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