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**P.G.D.C.A. (Semester – I) (New) Examination, 2014
FUNDAMENTALS OF COMPUTER AND INFORMATION
TECHNOLOGY (Paper – I)**

Day and Date : Monday, 21-4-2014
Time : 11.00 a.m. to 2.00 p.m.

Max. Marks : 80

- Instructions:** 1) Q. 1 and Q. 7 are **compulsory**.
2) Solve **any two** questions from Q. No. 2, 3 and 4.
3) Solve **any one** question between Q. 5 and Q. 6.
4) Figures to the **right** indicate **full** marks.

1. A) Choose the single correct alternative : **8**
- 1) A _____ is a pointing device, which works on the same principle as a trackball.
 - a) Joystick
 - b) Keyboard
 - c) Touch screen
 - d) Projector
 - 2) _____ was invented Bell laboratories in 1947 by John Bardeen, William Shockley and Walter Brattain.
 - a) Vacuum tube
 - b) Transistor
 - c) SSI
 - d) MSI
 - 3) LED stands for _____
 - a) Light Efficient Diode
 - b) Light Emitting Diode
 - c) Light Emitting Digital
 - d) Large Emitting Diode
 - 4) WWW stands for _____
 - a) World Wide Web
 - b) Word Wide Web
 - c) Work Wide Web
 - d) Wide Web Word
 - 5) Base of hexadecimal number is _____
 - a) Two
 - b) Ten
 - c) Sixteen
 - d) Eight



6) _____ is an input device, which translates paper document into an electronic format, which can be stored in computer.

- a) Scanner
- b) Keyboard
- c) Mouse
- d) Joystick

7) A _____ is a round, flat piece of flexible plastic coated with magnetic oxide.

- a) Floppy disk
- b) Compact disk
- c) Hard disk
- d) None of these

8) RAM stands for _____

- a) Read Only Memory
- b) Random Access Memory
- c) Both a and b
- d) Raw Access Memory

B) State **True** or **False** :

8

- 1) Plotter is an input device.
- 2) Microprocessor is the brain of computer.
- 3) A machine language instruction normally has a two parts for format, as operation code and address.
- 4) BCD stands binary-coded decimal.
- 5) Laser printer is non-impact printer.
- 6) Windows 7 is single user and single tasking operating system.
- 7) Magnetic tape is secondary storage device.
- 8) An interpreter is another type of translator.

2. A) Explain hardware and software in detail.

6

B) What is operating system ? Explain its types.

6

C) What is an assembler ?

4



- 3. A) What is secondary storage ? Explain magnetic tape in detail. **6**
 - B) Explain the characteristics of computer. **6**
 - C) Write on : Use of IT in Business. **4**

 - 4. A) What is Printer ? Explain the laser printer in detail. **6**
 - B) What is a machine language ? Explain with the advantages and limitations. **6**
 - C) Write on : Star Topology. **4**

 - 5. A) What are the different classification of computer ? **8**
 - B) What is meant by 'Generation' in computer terminology ? How many computer generations are till today. **8**

 - 6. A) Define the term network. Explain the LAN, MAN and LAN. **8**
 - B) What are the five basic operations performed by any computer system ? **8**

 - 7. Write short note on (**any four**) : **16**
 - 1) E-mail
 - 2) Number system
 - 3) Scanner
 - 4) Computer viruses
 - 5) Plotter.
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Seat No.	
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**P.G.D.C.A. (Semester – II) (Old) Examination, 2014
PROGRAMMING IN C (Paper – IX)**

Day and Date : Wednesday, 23-4-2014
Time : 3.00 p.m. to 6.00 p.m.

Total Marks : 80

- Instructions:** 1) Q. 1 and Q. 7 are **compulsory**.
2) Attempt **any two** questions from Q. No. 2, 3 and 4.
3) Attempt **any one** question from Q. No. 5 and 6.
4) Figures to the **right** indicate **full** marks.

1. Choose the single correct alternative :

16

- 1) Which of the following are format specifiers ?
i) %f ii) %c iii) %q
iv) %z v) %u
a) i), ii), iv) and v) b) ii), iii), iv) and v)
c) i), ii) and v) d) i), ii), iii) and iv)
- 2) Find invalid rule for an identifier.
a) It can start and end with alphabet
b) It can start and end with digit character
c) It can start and end with underscore
d) All are valid rules
- 3) Which files contain prototype of standard (library) functions ?
a) .c b) .obj c) .h d) .cpp
- 4) Which of the following are unary operators ?
i) %(modulus) ii) =(assignment)
iii) -(Subtraction) iv) / (Division)
a) i) and iv) b) only iii) c) i), ii) and iii) d) ii) and iii)



5) Output of the following code will be

```
void main( )  
{  
    int x=1,y=2,z=3;  
    printf(“%d  %d  %d”, ++x,x+y,z);  
}
```

- a) 1 3 3 b) 2 3 3 c) 2 4 3 d) 1 4 3

6) Which operator works like if else ?

- a) :: b) ?: c) -> d) >>

7) In for(...) how many semicolons are allowed.

- a) <=2 b) exactly 2 c) >=2 d) >=0

8) Output of the following code will be –

```
void main( )  
{  
    while(4<5)  
    {  
        printf(“hi !”);  
    }  
}
```

- a) hi ! b) hi ! printed infinitely
c) No output d) Error

9) How many times and when memory is allocated to formal parameters ?

- a) Only once during compilation time
b) Only once during execution time, at the start of program
c) Only once during execution time, before function call
d) For every call of that function

10) _____ dimensional array is not possible.

- a) 0 b) 2 c) 3 d) 6



- 11) Which of the following statements are correct regarding arrays :
- i) Array is a collection of similar type of elements
 - ii) Array is a group of same type of variables
 - iii) Array has sequential storage
- a) all are true b) iii) only c) i) and iii) d) ii) and iii)
- 12) Which storage class is used to increase scope of a variable ?
- a) auto b) static c) extern d) register
- 13) What is the use of fseek() function ?
- a) Copying data in file
 - b) Searching a number in file
 - c) Positioning a file pointer
 - d) Reading a data at specified location
- 14) Which of the following can not take file pointer to beginning of file ?
- a) rewind() b) fseek() c) fopen() d) fflush()
- 15) C language was developed by Deniss Ritchie.
- a) True b) False
- 16) _____ operator is used to negate the condition.
- a) - b) ~ c) ! d) ^

2. a) What is flowchart ? What are the principles of flowcharting ? **6**
- b) Explain character set, keywords and symbolic constants. **6**
- c) Write a program to print the largest number among three numbers. **4**
3. a) What are the control structures ? Explain bi-directional conditional control structure with suitable example. **6**
- b) What is function ? Explain function declaration and function definition with example. **6**
- c) What is pointer ? Explain the features of pointer. **4**



4. Write short notes on the following :
- a) Pass by reference **4**
 - b) Pointers to structures **4**
 - c) Recursion **4**
 - d) Algorithm. **4**
5. a) Discuss on “Operator Precedence and Associativity”. **8**
- b) Write a program to print the factorial of given number
(Use do...while loop). **8**
6. a) What is an array ? Explain it’s types with suitable example. **8**
- b) Explain structures in brief. **8**
7. a) What is file ? Explain different file opening modes. **8**
- b) Write a program to accept employee details like empno, empname,
joining_date, salary and store in the file EMP.DAT. **8**
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P.G.D.C.A. (Sem. – II) Examination, 2014
DBMS AND RDBMS USING ORACLE (New) (Paper – VII)

Day and Date : Wednesday, 7-5-2014
Time : 3.00 p.m. to 6.00 p.m.

Max. Marks : 80

- Instructions :** 1) Q. 1 and Q. 7 are **compulsory**.
2) Attempt **any two** questions from Q.No. 2, 3 and 4.
3) Attempt **any one** questions from Q.No. 5 to Q. 6.
4) Figures to the **right** indicate **full** marks.

1. A) Choose the single correct alternative :

8

- i) _____ is Data control language command
a) ALTER
b) Create
c) GRANT
d) EDIT
- ii) Building Block of database is called
a) Function
b) Report
c) Form
d) Data
- iii) SQL, Spreadsheet, Report Generator, Code Generator are the example of
a) 3 GL
b) 4 GL
c) 5 GL
d) None of the above
- iv) Access is _____ DBMS.
a) Relational
b) Hierarchical
c) Network
d) None of the above
- v) SQL stands for
a) Structured Query Language
b) Software Query Language
c) Server Query Language
d) None of these
- vi) Primary key has importance of _____
a) Uniqueness
b) Deletion
c) First preference
d) None of these



- vii) DDL stands for
- a) Data Defination Language
 - b) Data Drop Language
 - c) Data Display Language
 - d) Data Design Language
- viii) A row of a relation is called a
- a) Domain
 - b) Tuple
 - c) Extension
 - d) None of the above

B) Answer **one** sentence :

8

- i) What is mean by data ?
- ii) What is mean by oracle ?
- iii) Define table.
- iv) What is mean by query ?
- v) Define cursor.
- vi) Write down Arithmetic operator
- vii) Long form of DBA.
- viii) What is mean by sort ?

2. a) Write down difference between DBMS and RDBMS. **6**
- b) Explain the features of SQL. **6**
- c) Short notes on subqueries. **4**
3. a) Write down difference between Data and information. **6**
- b) Write down six SQL commands with example. **6**
- c) Explain benefit of DBMS. **4**
4. a) Explain the components of SQL. **6**
- b) Difference between If ELSE statement and FOR loop, with example. **6**
- c) Short notes on Triggers. **4**



5. a) Consider the following employee database employee (employee_name, street, city works(employee_name, company_name, salary) **8**
Company (company_name, city)
Manages (Employee_name, manager_name)
Write SQL queries for the following
Note :Primary key are underlined
- a) Find the names of all employee who work for first bank corporation.
 - b) Find all employees who earn more than the average salary of all employees of their company.
 - c) Delete all tuples in the works relation for employees of small bank corporation.
- b) Explain CODD's rules for RDBMS. **8**
6. a) What is mean by Normalization ? Explain types of Normal form ? **8**
b) What is mean by cursor ? Explain the types of cursors. **8**
7. Write short note (**any 4**) : **16**
- a) GRANT, REVOKE
 - b) Role and Responsibility of DBA
 - c) SQL commands
 - d) Difference between SQL and PL/SQL
 - e) Operators.
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**P.G.D.C.A. (Semester – II) Examination, 2014
ASP.NET USING C # (New) (Paper – 8)**

Day and Date : Thursday, 8-5-2014
Time : 3.00 p.m. to 6.00 p.m.

Total Marks : 80

Instructions : 1) Q. 1 and Q. 7 are compulsory.

2) Attempt **any two** questions from Q. No. 2, 3 and 4.

3) Attempt **any one** question from Q. No. 5 and 6.

4) Figures to the **right** indicate **full** marks.

1. Choose the single correct alternative.

16

- 1) _____ is small amount of data that is stored in the text file or in memory.
 - a) cookie
 - b) session
 - c) both a) and b)
 - d) none of these
- 2) Which of these is not a feature of ASP.NET ?
 - a) Easy development
 - b) Data access
 - c) Compiled execution
 - d) None of these
- 3) Which of the following contains web application setting ?
 - a) app.config
 - b) web.config
 - c) assembly.config
 - d) machine.config
- 4) What data type is return is IsPostBack property ?
 - a) bit
 - b) boolean
 - c) int
 - d) string
- 5) Which namespace is used when we connect our ASP.NET page to SQL Server ?
 - a) System.data.sqlclient
 - b) System.data.sql
 - c) System.Sqlserver
 - d) System.url

P.T.O.



- 6) Which method do you invoke on the DataAdapter control to load your generated dataset with data.
 - a) DataBind()
 - b) Populate()
 - c) Bind()
 - d) Fill()
- 7) Which of the following is the object of .NET data provider ?
 - a) Connection
 - b) Command
 - c) Data reader
 - d) All of these
- 8) ASP.NET provides way of authenticate
 - a) Forms Authentication
 - b) Windows Authentication
 - c) Passport Authentication
 - d) All of these
- 9) Which data control does not exists in ASP.NET. ?
 - a) Grid View
 - b) Data List
 - c) Table View
 - d) Repeater
- 10) Which of the following is the correct size of a Decimal datatype in C# ?
 - a) 8 bytes
 - b) 4 bytes
 - c) 10 bytes
 - d) 16 bytes
- 11) Which of the following is not an arithmetic operator in C#.NET ?
 - a) **
 - b) +
 - c) /
 - d) %
- 12) Code that targets the Common Language Runtime is known as
 - a) Unmanaged
 - b) Distributed
 - c) Managed Code
 - d) Legacy
- 13) Which of the following allow writing formatted output ?
 - a) Response.Write()
 - b) Response.Output.Write()
 - c) Both a) and b)
 - d) None of the above
- 14) Which of the following languages can be used to write server side scripting in ASP.NET ?
 - a) C#
 - b) C
 - c) Visual Basic
 - d) All of these
- 15) The Asp.net server control, which provides an alternative way of displaying text on web page, is
 - a) <asp:label>
 - b) <asp:listitem>
 - c) <asp:button>
 - d) None of these
- 16) CSS stands for _____
 - a) Code Server Style
 - b) Cascading Style Server
 - c) Cascading Style Sheet
 - d) Control Security Style



- 2. a) Explain Internet Information Server (IIS). **6**
 - b) What is variable ? Explain variable rules in C#. **6**
 - c) Write a program in C# to check the given number is even or odd. **4**

 - 3. a) Explain functions in C#. **6**
 - b) What are the OOPs concepts ? **6**
 - c) Explain Common Language Runtime (CLR). **4**

 - 4. Write short notes on the following : **16**
 - 1) Cookies
 - 2) CSS
 - 3) Application state
 - 4) Command object.

 - 5. a) Discuss on .NET Framework Classes. **8**
 - b) How will you create new web site in ASP.NET (Visual Studio 2008) ? Give detail steps. **8**

 - 6. a) Discuss on State Management in ASP.NET. **8**
 - b) Explain Data types in C#. **8**

 - 7. a) Write on Master Pages. **8**
 - b) Explain Data Sets and Data Adapter. **8**
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**P.G.D.C.A. (Semester – II) Examination, 2014
(Paper – IX) : JAVA PROGRAMMING (New)**

Day and Date : Friday, 9-5-2014
Time : 3.00 p.m. to 6.00 p.m.

Max. Marks : 80

- Instructions :** 1) Q. No. 1 and Q. No. 7 are **compulsory**.
2) Attempt **any two** questions from Q. No. 2, 3 and 4.
3) Attempt **any one** question from Q. No. 5 and 6.
4) Figures to the **right** indicate **full** marks.

1. Choose correct alternatives :

16

- 1) Java source code is compiled into _____
a) .obj b) .exe c) source code d) byte code
- 2) Which of the tool is used to compile the java code ?
a) javadoc b) java c) javac d) jar
- 3) Which of the following tool is used to execute java code ?
a) java b) javac c) javadoc d) rmic
- 4) JVM is platform independent
a) True b) False
- 5) JAR stands for
a) Java Archive b) Java Archive Runner
c) Java Application Runner d) None of the above
- 6) Is the following way of commenting correct in Java ?
/* My Comment 1
/* Comment 2*/
*/
a) True b) False

P.T.O.



- 7) _____ is a name given to a variable, class or method.
a) Constant b) Reference c) Identifier d) Modifier
- 8) Who is considered as the creator of JAVA ?
a) James Gosling b) Dennis Ritchie
c) Ken Thompson d) Bjarne
- 9) Which of the following statements about the Java language is true ?
a) Java supports only procedural approach towards programming
b) Both procedural and object oriented programming are supported
c) Java support only object oriented programming approach
d) None of the above
- 10) Java is an enhanced version of C++
a) True b) False
- 11) JVM stands for
a) Java Virtual Machine b) Java Verified Machine
c) Java Very Large Machine d) All of the above
- 12) JRE stands for
a) Java Real Environment b) Java Rapid Enterprise
c) Java Runtime Environment d) None of the above
- 13) What is the extension of java byte codes ?
a) .java b) .class c) .obj d) none of the above
- 14) What is the command to execute a java program ? (Let the file name be myprogram.java)
a) java myprogram.java b) javac myprogram
c) java myprogram.class d) java myprogram
- 15) Garbage collection takes place automatically in JVM.
a) True b) False
- 16) Keywords and identifiers are same
a) True b) False



2. a) What is Object Oriented Programming ? Explain objects and classes in Java. **8**
b) What is variable ? Explain data types in Java. **8**
 3. a) Explain This and Super keyword with suitable example. **8**
b) Explain looping statement with suitable example. **8**
 4. a) Write a program to make addition, subtraction, multiplication of two numbers. **8**
b) Write a program to print factorial of given number. **8**
 5. a) Write a note on exception handling. **8**
b) Write a program to input any 5 values of one dimensional array and print reverse order. **8**
 6. a) What is an Applet ? Explain life cycle of Applet. **8**
b) What is thread ? Explain thread life cycle. **8**
 7. Write short notes on the following : **16**
 - a) JDBC
 - b) Input and Output stream
 - c) JButton
 - d) If-else statement.
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P.G.D.C.A. (Sem. – I) (New) Examination, 2014
INTRODUCTION TO A/C PACKAGE AND MS-OFFICE (Paper – II)

Day and Date : Tuesday, 22-4-2014
Time : 11.00 a.m. to 2.00 p.m.

Max. Marks : 80

- Instructions :** 1) Q. No. 1 and Q. 7 are **compulsory**.
2) Attempt **any two** questions Q. 2, Q. 3 and Q. 4.
3) Attempt **any one** question between Q. No. 5 and Q. No. 6.
4) Figures to the **right** indicate **full** marks.

1. A) Choose the single correct alternative :

8

- i) The financial accounting year period is _____
1) 20-6-2013 to 19-5-2014 2) 1-1-2013 to 31-12-2013
3) 1-4-2013 to 31-3-2014 4) 1-10-2013 to 30-9-2014
- ii) The extension for MS-Excel file is _____
1) .Xls 2) .exl 3) .excel 4) None of these
- iii) In Tally F7 key is used to select _____ voucher type.
1) Purchase 2) Receipt 3) Journal 4) Payment
- iv) Which of the following is not valid version of MS-office ?
1) Office 2003 2) Office 2007
3) Office xp 4) None of these
- v) _____ is the extension of Power Point files.
1) .bmp 2) .ppt 3) .exe 4) .jpeg
- vi) To print document in MS-Word _____ short cut key is used.
1) Alt + P 2) Ctrl + P
3) Enter + P 4) Shift + P
- vii) _____ is voucher type of the Tally.
1) Credit 2) Contra 3) Debit 4) Cost
- viii) Which of the following is a font style ?
1) Bold 2) Regular 3) Insert 4) None of these



- B) Answer **one** sentence : 8
- i) How many predefined groups are available in Tally ?
 - ii) What is mean by transaction ?
 - iii) What is mean by software ?
 - iv) Long form of VAT.
 - v) Which typs of alignments available in Word processor ?
 - vi) Which short cut keys are used cut, copy, paste ?
 - vii) Which function key is used change date in Tally ?
 - viii) What is mean by creditor ?
2. a) Explain the features of MS-Word. 6
- b) Explain different function keys with their use in Tally. 6
- c) Write down rules of Account. 4
3. a) Explain the home menu in detail in MS-Word. 6
- b) Explain the Gateway of Tally. 6
- c) Write down components of Page layout in MS-Word. 4
4. a) Write down advantage of computerised A/c.ing. 6
- b) What is function in MS-Excel ? Write down five function with example. 6
- c) Write down different chart types. 4
5. a) Draw a format of Journal, Ledger, Trial Balance and Balance Sheet. 8
- b) Explain mail merge features in MS-Word. 8
6. a) What is group in Tally ? Enlist the group. 8
- b) What is Power point ? Explain the menu of Power point presentation. 8
7. Write short notes (**any 4**) : 16
- a) Standard tool bar of MS-Word.
 - b) Page setup.
 - c) Company Information menu in Tally.
 - d) Concept of work book and work sheet.
 - e) Text editing features.
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Seat No.	
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PGDCA (Sem. – I) (New) Examination, 2014
SYSTEM ANALYSIS AND DESIGN WITH C – PROGRAMMING (Paper – III)

Day and Date : Wednesday, 23-4-2014
Time : 11.00 a.m. to 2.00 p.m.

Max. Marks : 80

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


1. A) Choose the correct alternative.

8

i) DFD stands for _____

- 1) Data Fare Diagram 2) Data Flow Diagram
3) Data Fact Diagram 4) Data Future Diagram

ii) _____ symbol is used for flow chart.

- 1)  2)  3)  4) 

iii) Any "C" language statements always ends with _____

- 1) Semi colon 2) Colon
3) Full stop 4) Question Mark

iv) The C language was developed in 1970's at Bell laboratories by _____

- 1) Ken Thompson 2) Dennis Richie
3) Martin Richards 4) None of these

v) SDLC stands for _____

- 1) System Data Life Cycle
2) System Design Life Cycle
3) System Development Life Cycle
4) System Dictionary Life Cycle



- vi) _____ is a Feasibility study.
- | | |
|----------------|------------------|
| 1) System | 2) Technical |
| 3) Development | 4) None of these |

- vii) TPS stands for _____
- 1) Top Position System
 - 2) Transaction Processing System
 - 3) Time Perfect System
 - 4) Time Post System

- viii) If a is an integer variable, $a = 5/2$ will return a value
- | | | | |
|--------|------|------|------|
| 1) 2.5 | 2) 2 | 3) 3 | 4) 0 |
|--------|------|------|------|

B) Answer **one** sentence.

8

- i) What is mean by Software ?
- ii) What is mean by Development ?
- iii) What is mean by Data ?
- iv) What is mean by Flowchart ?
- v) What is mean by constant ?
- vi) What is mean by Function ?
- vii) Write down Arithmetic operator.
- viii) Long Form of MIS.

- | | |
|--|----------|
| 2. a) Draw a symbol of flow chart. | 6 |
| b) Explain the feasibility study. | 6 |
| c) Differentiate between while an do...while. | 4 |
| 3. a) Explain the Role of System Analyst. | 6 |
| b) Explain If-else, switch, break and continue exit statement. | 6 |
| c) Difference between system and software. | 4 |



- | | |
|--|----|
| 4. a) Explain Basic elements of a system. | 6 |
| b) Explain the symbol of DFD Diagram. | 6 |
| c) Explain the History of C. | 4 |
| 5. a) What is mean by operator ? Explain the types of operator. | 8 |
| b) Write a program to Find largest number from three given number. | 8 |
| 6. a) What is mean by system ? Explain the types of system. | 8 |
| b) Explain the techniques for user requirement. | 8 |
| 7. Write short notes (any 4). | 16 |
| a) Information System | |
| b) Software maintenance | |
| c) Data types in C | |
| d) Types of Relationship | |
| e) User defined function. | |
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**P.G.D.C.A. (Semester – II) Examination, 2014
DBMS AND RDBMS USING ORACLE (Old) (Paper – VII)**

Day and Date : Monday, 21-4-2014
Time : 3.00 p.m. to 6.00 p.m.

Total Marks : 80

- Instructions:** 1) Q. 1 and Q. 7 are **compulsory**.
2) Attempt **any two** questions from Q. No. 2, 3 and 4.
3) Attempt **any one** question from Q. No. 5 and 6.
4) Figures to the **right** indicate **full** marks.

1. A) Choose the single correct alternative : **16**
- 1) _____ is a process that helps analysts or database designers to design table structures for an application.
a) SQL b) Sub-Query c) Normalization d) All of these
 - 2) SQL starts with a _____
a) Verb b) Adjective c) Noun d) Pronoun
 - 3) _____ is the area of SQL that allows changing data within the database.
a) DDL b) DML c) DCL d) DQL
 - 4) The unique column constraint permits multiple entries of NULL into the column.
a) True b) False
 - 5) The _____ operator allows the selection of rows that contain values within a specified lower and upper limit.
a) ** (Exponentiation) b) AND
c) OR d) BETWEEN
 - 6) A _____ is a form of an SQL statement that appears inside another SQL statement.
a) PL/SQL b) Join c) View d) Sub-query



- 7) The PL/SQL code block starts with a _____ section.
 a) BEGIN b) START c) DECLARE d) None of these
- 8) IF THEN ELSE END IF; is a valid iterative control structure in PL/SQL.
 a) True b) False
- 9) _____ changes the flow of control within a PL/SQL block.
 a) If .. Then .. else ... end if. b) While
 c) Goto d) All of these
- 10) In PL/SQL, _____ is valid assignment operator.
 a) := b) = c) =: d) = =
- 11) In a cursor, _____ statement moves the data held in the Active Data Set into the memory variables.
 a) Copy b) Open c) Move d) Fetch
- 12) Database triggers can be used to prevent invalid transactions.
 a) True b) False

B) Suppose there is a table named CLIENT_MASTER exist on the disk. The columns of the table are – clientno, name, address, city, pincode, state. 4

Write SQL statements for the following :

- 1) Change the city of clientno 'C0005' TO 'Bangalore'.
 - 2) List the names of all clients having 'a' as the second letter in their names.
 - 3) List the clients who stay in a city whose first letter is 'M'.
 - 4) Add a column called TELEPHONE of data type 'Number' and size = 10 to the CLIENT_MASTER table.
2. a) What is data ? How DBMS is differ from RDBMS ? 6
- b) Who is oracle DBA ? Explain the responsibilities of oracle DBA. 6
- c) Explain “Classification of SQL Commands”. 4
3. a) Explain group by and having clause with suitable example. 6
- b) Explain any three aggregate functions with example of each. 6
- c) What is the term privilege ? How will you give and take out privileges to other users ? 4



4. Write short notes on the following :
- 1) Normalization 4
 - 2) Multiple sub-queries 4
 - 3) Iterative Control Structures 4
 - 4) Historical development of oracle. 4
5. a) Write a PL/SQL code to accept, calculate and store the details of employees into the table EMPLOYEE. Columns of the table will be EMPNO, EMPNAME, BASIC_SALARY, DA, HRA and NET_SALARY. Rules for DA, HRA etc. calculation : 8
- DA should be 75% on BASIC_SALARY
 - HRA should be 10% on BASIC_SALARY
 - $NET_SALARY = BASIC_SALARY + DA + HRA.$
- b) Why triggers are used ? Explain with suitable example. 8
6. a) Discuss on 'Codd's Rules. 8
- b) Explain Explicit Cursor Management. 8
7. a) Discuss on "Integrity Constraints". 8
- b) Explain Like Operator, Between Operator, Where Clause and Order By clause. 8
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