(2015-18)

BC-301

SAD

2017

Time : 3 hours *Full Marks : 80*

Candidates are required to give their answer in their own words as far as practicable.

The questions are of equal value.

Answer any five questions.

1. Describe the various phases of object oriented analysis and design life cycle.
2. What is Reverse Engineering? Explain the need of Reverse Engineering with an example.
3. Describe the tools and techniques of Cost Benefit Analysis.
4. What is the need of Software testing? Describe the objectives of Performance testing.
5. What are different phases in SDLC? What is the need of System Analysis? Explain the role of System Analyst.
6. Briefly discuss various criteria for Form and Report design, using an example.
7. What is Cohesion? Explain any four types of Cohesion.

P.T.O.

8. Explain various steps involved in the process of documentation.

9. Explain Structured Analysis and Structured Design. What are its goals?

10. Distinguish between technical, operational and economic feasibility with suitable examples.

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4/7/18

BC-302

DBMS

2017

Time : 3 hours *Full Marks : 80*

Candidates are required to give their answer in their own words as far as practicable.

The questions are of equal value.

Answer any five questions.

1. What is ER Modelling? Describe in detail the basic concept of ER Model with example.
2. Draw a data table and define its various components in detail.
3. Illustrate with the help of a diagram the three levels of data abstractions.
4. What is the Process Normalization? Discuss any three normal form with example.
5. What are the advantages and disadvantages of DBMS?
6. Describe the step by step process used while database designing process.
7. What is a Log File? Explain.

P.T.O.

8. Draw an ER Diagram for a shop with their possible entities.

9. (a) Write SQL Command to create a table to manage the record of 'Students' of a school with suitable field and represent it graphically

   (b) Write SQL to perform the following:

   (i) Insert a new row

   (ii) List all the record of students having roll between 10 and 50.

   (iii) Update the name of Roll No.12 with "Suresh".

10. Write short notes on any two of the following:

   (a) Database Auditing

   (b) Data Encryption

   (c) Instance and Schema

   (d) Database Designer

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BC-303

OOP in C++

2017

Time : 3 hours *Full Marks : 80*

Candidates are required to give their answer in their own words as far as practicable.

The questions are of equal value.

Answer any five questions.

1. What is C++? Write down the features of object oriented programming language.
2. What is function overloading ? Write a C++ program to demonstrate the concept of function overloading.
3. What is friend function? Write C++ programme to demonstrate the concept of friend function.
4. What is Destructor ? Write C++ program to show concept of destructor.
5. Write a C++ program to overload (+=) short hand operator-
6. What is constructor ? Discuss the types of constructor. Write a C++ program to demonstrate the concept of overloaded constructor.

P.T.O.

7. What is operator overloading ? Write a C++ program to overload binary operator (-) using friend function.
8. What is Inheritance? Discuss the type of Inheritance. Write a C++ program to demonstrate the concept of single inheritance with example.
9. Write a C++ program to demonstrate the concept of constructor in derived class with suitable example.
10. Discuss C++ Dynamic allocation operator. Write a C++ program to accept N number from user and display n number using New and delete operator.

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BC-304

Computer Network

2017

Time : 3 hours *Full Marks : 80*

Candidates are required to give their answer in their own words as far as practicable.

The questions are of equal value.

Answer any five questions.

1. What is Computer Network? Explain different types of Computer Network.
2. Explain different approaches of Framing.
3. What is Topology? State the various topologies that are possible with LAN.
4. What is Work station? How is a PC different from Work station? Describe it.
5. What is Server? Discuss about three types of Server in detail.
6. Differentiate between OSI and TCP/IP reference model. Using diagram show the correspondence between relevant prosocol layers in the two models.

P.T.O.

7. What is IP addressing ? How is it classified? How is subnet addressing performed?
8. What is IPV6? Explain its advantages over IPV4. Also explain its frame format.
9. What is bridge ? Explain functions of bridge. How does a router differ from bridge?
10. What is Datagram? Explain Datagram approach in detail.

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