BC-301

SAD

BCA-3rd Sem. (2018-21)

Time: 3 hours

Full Marks: 80

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

The questions are of equal value.

Answer any five questions.

- 1. Discuss different types of system.
- 2. What is Information? Describe different types of information.
- 3. Explain different basic rules relevant to constructing a DFD.

 Distinguish between DFD and Flow Chart.
- 4. What are attributes of a good analyst? Explain.
- 5. Discuss about the Structural analysis tools.
- 6. What is Software maintenance? Describe different types of software maintenance.
- 7. Differentiate between Verification and validation in software testing.
- 8. Discuss the fact finding techniques which should be used for investigating the information requirement of a large Organisation.

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- 9. What do you mean by System Implementation? Discuss different methods used for system implementation.
- 10. Write Short notes on any two of the following:
 - (a) DSS
 - (b) Language Process
 - (c) Project Selection
 - (d) Sources of Information

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BC-302

DBMS

BCA-3rd Sem. (2018-21)

Time: 3 hours

Full Marks: 80

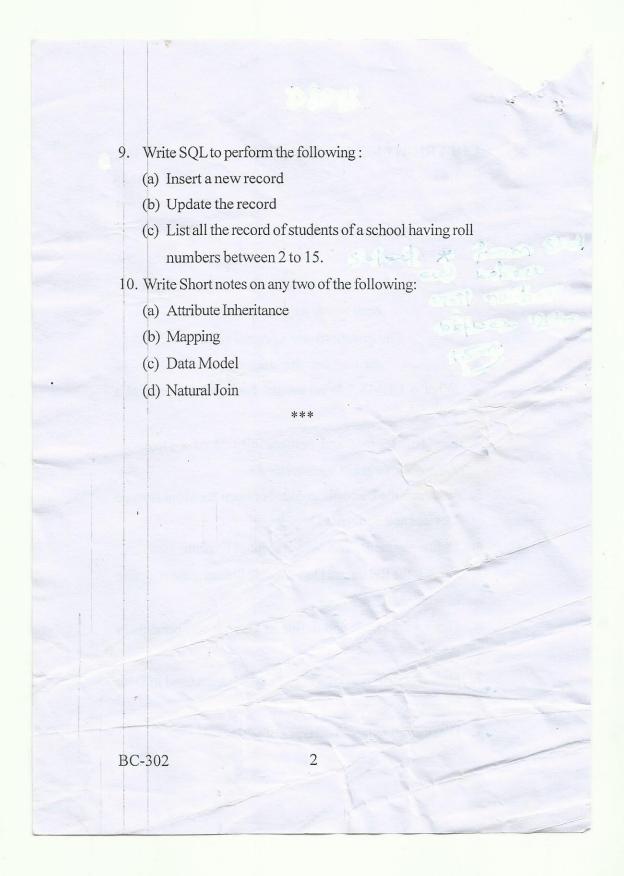
Candidates are required to give their answers in their own words as practicable.

The questions are of equal value.

Answer any five questions.

- 1. What is DBMS? What are the basic components of a DBMS?
- 2. Explain the role and responsibilities of a Database Administrator in an Organization.
- 3. What are the basic difference between Random storage Devices and Sequence Devices.
- 4. Define Normalization. Why it is done? Explain.
- 5. What is the Relational Data Modal? Illustrate the structure of relational data model.
- 6. Draw a data table and define its various components in details.
- 7. Describe different types of key constraints used in Data Manage System.
- 8. Discuss advantages and types of SQL.

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BC-303

OOP in C++

BCA-3rd Sem. (2018-21)

Time: 3 hours

Full Marks: 80

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

The questions are of equal value.

Answer any five questions.

- What is Object Oriented Programming? Discuss the features and application of C++.
 - 2. What do you mean by Nesting of member function? Write a program to find area and perimeter of a circle using nesting of member function.
 - 3. Write a program to over pad (+=) using friend function.
 - 4. What is multilevel Inheritance? Write a program to explain multilevel Inheritance with suitable example.
- 5. Write notes on any two:
 - (a) Abstract class
 - (b) Copy Constructor
 - (c) This keyword
 - (d) In line function.

- 6. What is Destructor? Write a program to demonstrate the concept of destructor with suitable example.
- 7. Explain File Stream Classes. Write a program to read and write information in a binary file using write () + read ().
- 8. What is constructor? Discuss the types of constructor. Write a program to calculate area of circle using constructor.
- 9. What is static data member and static member function?
 Write a program to show advantages of static data member.
- 10. What is pure Virtual function? Write a program to explain the concept of pure virtual function.

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BC-304

Computer Network

BCA-3rd Sem. (2018-21)

Time: 3 hours

Full Marks: 80

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

The questions are of squal well.

The questions are of equal value.

Answer any five questions.

- 1. What is Computer Networks? Explain the Characteristics of Computer Networks.
- 2. What is Physical Media? Explain the types of Physical media.
- 3. What is OSI Layers? Explain the services of OSI Layers.
- 4. What is Switching technique in computer Network? Write difference between Packet Switching and circuit switching technique.
- 5. What are the routing Principals? Explain the types of routing algorithm.
- 6. Describe the following:
 - (i) Go back NARQ Protocol.
 - (ii) Selective Repeat Protocol.

- 7. What is Error detection and correction Technique in computer Network? Explain it in details.
- 8. What is www? Explain the services and feature of www.
- 9. What are Internet back bones? Explain the uses of Internet in real life.
- 10 rapare the OSI model with TCP/IP model.
