walkout

 BC-301

BCA 3rd Sem.(2016-19)

Time : 3 Hrs *Full Marks : 80*

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

The questions are of equal value.

Answer any five questions.

1. Define the term "System" and discuss its characteristics. Briefly explain the element of a system.
2. What is a Data Flow Diagram? Discuss the various symbols and rules for defining DFD?
3. What is the file organisation? How many methods of file organisation?
4. What is Testing? How many types of testing? Explain it.
5. What is fact finding techniques which is used for investigating the information of a large organisation.
6. What is coupling? Explain its various types in detail.
7. Which method are used to review systems after implementation?
8. Discuss about Managing Project Review and System Life Cycle?

P.T.O.

9. Explain the term MIS. Explain the components of a Transaction Processing System.

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

    (a) Open verses closed system

    (b) Decision analysis

    (c) E. R. diagram

    (d) Technical feasibility

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Answer any five questions.

1. Explain the Role and Responsibilities of a database Administrator in an organization.
2. Illustrate with the help of a diagram the three levels of data abstractions.
3. List and explain the traditional set operations used with data tables.
4. What is process normalization? Discuss any three normal form with example.
5. (a) What do you mean by Data and Information? Differentiate it briefly.
   (b) How Database Management System makes it easy to store and maintain data into database?
6. (a) Draw an ER diagram for School Management System. Give possible entities with its attributes.

P.T.O.

(b) Define different types of key constraints used in Database Management System.

7. What is Relational Data Model? Illustrate the structure of the Relational Data Model.

8. Describe the step by step process used while database designing process.

9. Do the following using SQL commands.

(a) Write command to create the logical structure of the following database table :

"Student" Table

Roll	Name	Course	Sem.	Contact

(b) To insert a New Record.

(c) List those entire students having course BCA.

(d) Delete the whole structure of the student table.

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++

BCA 3rd Sem.(2016-19)

Time : 3 Hrs *Full Marks : 80*

Candidates are required to give their answers 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 application and features of C++ programming language.
2. What is class and object, Write a C++ program to enter Student Name, Roll Number and Marks. Display students Name, Roll Number and Marks using class and object.
3. What is static Data Member and Static Member Function. Write a C++ program to demonstrate the concept of Static Data Member and Member Function.
4. What is Operator Overloading. Write C++ program to overload Unary Operator (++).
5. Write a C++ program to overload binary (+) operator using Friend Function.
6. What is Polymorphism. Discuss the different type of polymorphism with suitable examples.

P.T.O.

7. What is command line arguments. Write a C++ program to find maximum of n given number using command line arguments.
8. What is function overloading. Write a C++ program to demonstrate the concept of Function Overloading.
9. What is C++ dynamic allocation operator. Write a C++ program to accept N Number and Print Maximum of N given Number using New and Delete Operator.
10. Write Notes : Any two
    (a) Virtual Base Class
    (b) Abstract Class
    (c) "This" Pointer
    (d) Constructor and Destructor

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BC-304

Computer Network

BCA 3rd Sem.(2016-19)

Time : 3 Hrs *Full Marks : 80*

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

The questions are of equal value.

Answer any five questions.

1. Define Computer Network? Discuss its application and types of Network Topology.
2. Explain the following :
   (i) LAN
   (ii) MAN
   (iii) WAN
3. What is OSI Model? Explain the functions and protocols and services of each layer.
4. Explain about the different types of transmission Medias in Computer Networks.
5. Explain about Sliding Window Protocols in Detail.
6. What is Media Access Control? Explain about the carrier Sense Multiple Access Protocols.
7. Comparison of Virtual Circuit and Data Gram Networks.

P.T.O.

8. Explain about the Routing Algorithms.
9. Differentiate between Bus Backbone and Star backbone.
10. What is the difference between Network Layer Delivery and Transport Layer Delivery?

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