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BCA (Voc.) III Sem. SAD (BC-301)

(2014-17)

2015

Time: 3 hours

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 the difference between system approach and system analysis?
- 2. Define the terms: EDP, MIS, DSS, EIS and KBS.
- 3. List out various processing techniques.
- 4. What is role of the personal computer in the information revolution?
- 5. Discuss different types of system.

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- 6. List out various methods commonly used for input verification and control.
- 7. Explain briefly about the criteria for hardware and software selection.
- 8. What are attributes of a good analyst?
- 9. Bring out the significance of interviewing in system.
- 10. What do you mean by coupling and cohesion?



## 2015

Time: 3 hours

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.

- 'vhat is the difference between base table and view?
   Explain the different constraints used in database.
- Describe the step by step process used while database designing process.
- 3. What is the basic difference between random storage devices and sequential storage devices?
- 4. What is relational data model? Illustrate the structure of relational data model.
- 5. How database management system makes it easy to store and maintain data into database.
- 6. Describe data encryption and database auditing.

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- 7 a) Define different types of key constraints used in database management system.
  - b) Draw an ER diagram for school management system. Give possible entries with its attributes.
- 8. How the generalization and specialization are reverse of each other. Define with examples.
- 9. Do the following using SQL commands
  - a) Write command to create the logical structure of the following database table:

"Employee" Table

Emp_id	Emp-Name	City	Salary	Designation
			15	

- b) To insert a new record.
- c) Add a new column bin to the database.
- d) Delete the whole structure of the employee table.
- 10. 'Vrite short notes on any two of the following:
  - a' Data and information
  - b) Multi valued attribute
  - c) Data Dictionary
  - d) Degree of Relationship

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BCA (Voc.) III Sem.

BCA (Voc.) III Sem. OOP in C++ (BC-303)

## 2015

Time: 3 hours

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.

- What is class and object? Write a C++ programme to demonstrate the concept of class and object with suitable example.
- 2. What is inline function? Write a C++ programme to find maximum of given two number using inline function. Also explain the criteria where inline function are not used.
- C. What is operator overloading? Write a C++ programme to overload unary operator (++).
- The Write a C++ programme to overload + binary operator using friend function.

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- 5. What is virtual function? Distinguish between pure virtual function and virtual function.
- 6. What is file stream classes? Write a C++ programme to write and read a text in a file.
- 7. What is file? Discuss the types of file.
- 8. What is constructor? Discuss the types of constructor and also explain the characteristics of constructor.
- 9. What is inheritance? Discuss the types of inheritance with diagram. Create C++ programme to demonstrate the concept of multiple inheritance with suitable example.
- 10 Write short notes on any two of the following:
  - OOP language
  - F; Friend function
  - c) Polymorphism
  - d) Destructors

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BCA (Voc.) III Sem.

BCA (Voc.) III Sem. Computer Network (BC-304)

## 2015

Time: 3 hours

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.

- What is LAN? Explain network equipment used in wired LAN and explain the functions of HUB, SWITCH and BRIDGE.
- 2. What is structured cabling? State the main rules that should be used when installing a cable. Show that maximum cabling area for LAB for horizontal cabling runs is approximately zoom.
- 3 What is OSI reference model? Differentiate between OSI model and TCP/IP model.
- 4. What is Gateway? What is the main function of Gateway? A Gateway operate at which layer?

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- 5. What is HDLC protocol? Write down the basic features of HDLC protocol? Could HDLC can be used as a data link protocol for LAN?
- 6. What is congestion control? What is difference between congestion control and QOS (Quality of Service)?
- 7. What are the reasons for using layered protocols? Why do data link layer protocols position the check sum in the trailer and not in the header?
- What is IP addressing? How it is classified? How subnet addressing is performed?
- Oefine Computer Network. Explain two types of Computer Network Architectures.
- 10. Write short notes on any two of the following:
  - a) Fiber-optic
  - b) Half-Duplex and Full Duplex
  - c) Multiplexing
  - d) Gateway

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