

B.C.A. SEM-I (2014 COURSE) CBCS : WINTER - 2017
SUBJECT: FUNDAMENTALS OF IT

Day: Thursday
Date: 09/11/2017

Time: 02.00 PM TO 05.00 PM
Max. Marks: 100

W-2017-1602

N.B.:

- 1) Answer any **FOUR** question from Section-I and any **TWO** questions from Section-II.
- 2) Both the sections should be written in the **SEPARATE** answer book.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION-I

- Q.1** What is magnetic disk? Draw and explain 3 ½ inch floppy disk drive in detail. (15)
- Q.2** What are data processing devices? How do they help in improving data accuracy as compared to keyboard devices? (15)
- Q.3** Differentiate between the following: (15)
- a) Application Software Vs System Software
 - b) Half duplex Vs Full duplex
 - c) Sequential access storage Vs Random access storage.
- Q.4** Define Operating System. What are the various function of O.S.? Compare Windows and Linux Operating System. (15)
- Q.5** What is printer? Differentiate between impact and non-impact printers? Write their relative advantages and disadvantages. (15)
- Q.6** What is Network topology? Describe these network topologies in common use? Write relative advantages and disadvantages. (15)
- Q.7** Write short notes on any **THREE** of the following: (15)
- a) Assembler
 - b) Input devices
 - c) File access method
 - d) Batch processing

SECTION-II

- Q.8** Define Computer. Explain the classification of computer. (20)
- Q.9** What is Internet? Name some basic service provided by the Internet? What is use of Internet? (20)
- Q.10** Define the following term in context of disk storage (20)
- a) Access Time
 - b) Latency
 - c) Seek Time
 - d) Transfer Rate

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B.C.A. SEM-I (2014 COURSE) CBCS : WINTER - 2017

SUBJECT: DATABASE MANAGEMENT THEORY

Day : **Saturday**

Date : **11/11/2017**

W-2017-1603

Time: **02.00 PM TO 05.00 PM**

Max. Marks: 100

N.B.:

- 1) Attempt **ANY FOUR** questions from Section – I and attempt **ANY TWO** questions from Section – II.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** Explain CODD's rule for RDBMS. **[15]**
- Q.2** What is Deadlock? Explain Timestamp based Deadlock prevention. **[15]**
- Q.3** What are types of failures? Explain any one Log Based Recovery Technique. **[15]**
- Q.4** Explain with example different types of Attributes in Entity relationship diagram. **[15]**
- Q.5** Explain the role and responsibility of DBA. **[15]**
- Q.6** What is DBMS? Explain characteristics of DBMS. **[15]**
- Q.7** Write short notes on **ANY THREE** of the following: **[15]**
- a) Joins
 - b) Indexing and Hashing
 - c) Shadow paging
 - d) RAID

SECTION – II

- Q.8** Normalization following table upto 3NF: **[20]**
Scenario: Customers belong to a particular branch, this branch is supervised by a particular manager. Customers purchase stock. Each stock has a particular title and format.
CustomerID (Key), Name, Address, BranchNo, BranchManager, StockID, Title and Format.
- Q.9** Explain with how ER Model is converted to Relational Model. **[20]**
- Q.10** What is file organization? Explain in detail concept of file organization with example. **[20]**

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B.C.A. SEM-I (2014 COURSE) CBCS : WINTER - 2017

SUBJECT: C- PROGRAMMING - I

Day : Tuesday
Date : 14/11/2017

Time : 02.00 PM TO 05.00 PM
Max. Marks: 100

W-2017-1664

N.B.

- 1) Attempt any **FOUR** questions from Section – I. Each question carry 15 marks
- 2) Attempt any **TWO** questions from Section – II. Each question carries 20 marks.
- 3) Answers to both the sections should be written in the **SEPARATE** answer book.

SECTION – I

- Q.1** Explain with example various decision statement used in C.
- Q.2** What is pointer? Explain the advantage of pointer in C.
- Q.3** Define string. Explain any five string functions.
- Q.4** Explain in brief the different of operators supported in C.
- Q.5** Define function. Explain the term function declaration, function definition, function call and function parameters in brief.
- Q.6** What is array? Explain various types of array with example.
- Q.7** Write short note on any **TWO**:
- a) Storage classes in C
 - b) Data types in C
 - c) Formatted input and output functions

SECTION – II

- Q.8** a) Write a C program to check whether the given number is prime or not.
b) Write a C program to find even numbers between 1 to 100.
- Q.9** a) Write a C program to swap two numbers.
b) Write a C program to find a maximum of three given numbers.
- Q.10** Write a menu driven program in C by using functions to calculate square, cube and square root of given number.

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B.C.A. SEM-I (2014 COURSE) CBCS : WINTER - 2017

SUBJECT: PRINCIPLES OF MANAGEMENT

Day: **Thursday**

Date: **16/11/2017**

Time: **02.00 PM TO 05.00 PM**

Max Marks. 60

W-2017-1605

N.B.

- 1) Attempt Any **THREE** questions from Section - I and any **TWO** questions from Section -II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Attempt Section - I and Section – II on **SEPARATE** answer books

SECTION – I

- Q.1** Define Management and also explain its importance in present environment. **(10)**
- Q.2** State the contribution of Scientific Management for managerial function at present. **(10)**
- Q.3** What is delegation? How this can be done without any conflicts? **(10)**
- Q.4** State various types of Plans. **(10)**
- Q.5** Write short note on **ANY TWO** of the following **(10)**
- a) Staffing
 - b) Organization structure
 - c) Financial control

SECTION – II

- Q.6** How many levels of Managements you would recommend for each of the following cases. State with illustrations. **(15)**
- a) Organization employing 500 employees
 - b) Organization employing 1000 employees
- Q.7** Prepare a note for the middle management personnel in your division on how to arrive at a right decision in a short time. **(15)**
- Q.8** Prepare a plan for recruiting a batch of 10 BCA candidates as Management Trainee **(15)**