

Day: Tuesday
Date: 24/04/2018

S-2018-1694

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

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.
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SECTION-I

- Q.1** Draw a block diagram to illustrate basic organization of computer system and explain the functions of various unit. **(15)**
- Q.2** How many types of storage are normally there in the storage unit of computer system and justify the need for each storage type. **(15)**
- Q.3** Differentiate between the following: **(15)**
a) Batch processing Vs Time sharing
b) Multiprogramming Vs Multitasking
c) Half duplex Vs Full duplex.
- Q.4** Define Operating System. What are the various function OS? Compare Windows and Linux Operating System. **(15)**
- Q.5** Explain the various Computer generations along with the key characteristics of Computer of each generation. **(15)**
- Q.6** How many types of Software are there? Explain at least two example of each. **(15)**
- Q.7** Write short notes on any **THREE** of the following: **(15)**
a) Compiler
b) Magnetic Disk
c) Database Management System
d) Input devices.

SECTION-II

- Q.8** What is Computer Network? Explain different types of data transmission media used in Computer Networks. **(20)**
- Q.9** What is File? Explain different File organization scheme in brief. **(20)**
- Q.10** Define the following term in context of disk storage **(20)**
a) Access Time
b) Latency
c) Seek Time
d) Transfer Rate

Day: **Saturday**
Date: **28/04/2018**

S-2018-1695

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

N.B.:

- 1) Attempt any **FOUR** questions from Section –I. Each question carries **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 **SAME** answer book.
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SECTION-I

- Q.1** Define database. Explain advantages of database over traditional file processing systems.
- Q.2** Explain CODD's rules in detail.
- Q.3** Explain different symbols used in the construction of Entity Relationship Diagrams.
- Q.4** What are the various security measures that can be implemented in Database system?
- Q.5** What is a Transaction? Discuss ACID properties and states of transactions.
- Q.6** Explain the need for recovery in database systems. Discuss shadow paging recovery scheme in detail.
- Q.7** Write short notes on the following:
- a) Data Independence
 - b) DBMS Interfaces
 - c) Mapping Cardinalities

SECTION-II

- Q.8** Construct an ER diagram for College Management System.
- Q.9** Normalize the following data upto 3NF:
E_No, E_Name, E_Address, E_Phone, Dept_No, Dept_Name,
Dept_Location, Project_No, Project_Name, Project_Location.
- Q.10** What is Relational Algebra? Explain the various relational algebra operators with example.

B.C.A. SEM-I (2014 COURSE) CBCS : SUMMER - 2018

SUBJECT: C- PROGRAMMING - I

Day : **Wednesday**
Date : **02/05/2018**

S-2018-1696

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

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.
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SECTION – I

- Q.1** Define function. Explain the term call by value and call by reference with example.
- Q.2** Write structure of C Program to explain the different datatypes present in C.
- Q.3** What is mean by decision statement? Explain Switch-Case statement with example.
- Q.4** Explain the arithmetic and relational operators with example.
- Q.5** Discuss different storage classes present in C.
- Q.6** What do you mean by sorting of an array? Explain the different sorting techniques.
- Q.7** Write short note on any **TWO**:
- a) Pointer
 - b) For loop in C
 - c) String functions

SECTION – II

- Q.8** a) Write a C program to display all number between 1 to 100 which are divisible by 5.
- b) Write a C program to print factorial of given number.
- Q.9** a) Write a C program to print odd and even numbers between 1 to 100 numbers.
- b) Write a C program to check the given number is palindrome or not.
- Q.10** a) Write a C program to print Fibonacci series.
- b) Write a C program to print the reverse of the given string.

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B.C.A. SEM-I (2014 COURSE) CBCS : SUMMER - 2018

SUBJECT: PRINCIPLES OF MANAGEMENT

Day: **Friday**
Date: **04/05/2018**

S-2018-1697

Time: **02.00 PM TO 05.00 PM**
Max Marks. 60

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
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SECTION – I

- Q.1** What is Management? What are the functions of Management? (10)
- Q.2** Critically evaluate the evolution of Management Thoughts. (10)
- Q.3** What are the important steps in planning process? (10)
- Q.4** Authority and Responsibility are the two sides of the same coin. Explain with suitable examples. (10)
- Q.5** Write short notes on **ANY TWO** of the following (10)
- a) Types of plans
 - b) Social responsibility
 - c) Control
 - d) Scientific Management

SECTION – II

- Q.6** Prepare alternate Organization Structure for a consumer durable manufacturing company. (15)
- Q.7** What alternate methods will you use for motivating Salesforce of a fast moving consumer goods Company? (15)
- Q.8** Critically analyze any leader of your choice. List out the leadership qualities and style of an effective leader. (15)