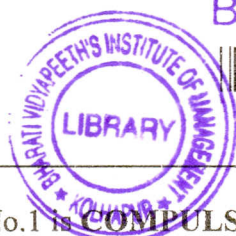


Subject : Software Project Management

B.C.A. ~~+~~/H/III

Day : Saturday

Date : 11/04/2015



23366

Time : 10.00 AM TO 01.00 PM

Max Marks : 70 Total Pages : 01

N.B:

- 1) Q. No.1 is **COMPULSORY**.
- 2) Attempt **ANY FOUR** questions from Q. No. 2 to Q. No. 7.
- 3) Figures to the **RIGHT** indicate full marks.

- Q.1** Compute the total number of function points for the project given below. (14)
Number of Programmers - 7
Number of Inputs - 11
Number of Outputs - 7
Number of Algorithms - 9
Number of Enquiries - 3
Number of Internal files - 7
Number of External files - 3
Number of Programs - 10
(Compute for all the three complexities.)
- Q.2** a) Define project management. Give the characteristics of a good project. (07)
b) Explain COCOMO model in detail. (07)
- Q.3** a) Explain various types of contracts. (07)
b) Explain Gantt chart with an example. (07)
- Q.4** a) What is project planning? Give the importance of it. (07)
b) List the stakeholders involved in project management with their role. (07)
- Q.5** a) Explain CMM model and its phases in detail. (07)
b) Describe knowledge areas identified by PMBOK. (07)
- Q.6** Explain classical mistakes in software and how to mitigate them. (14)
- Q.7** Write a note on **ANY TWO**: (14)
a) Nature of resources
b) Quality assurance
c) Leadership styles

Subject : Data Warehousing & Data Mining

B.C.A. 4/4/III

Day : Monday

Date : 13/04/2015



Time : 10.00 AM TO 01.00 PM

Max Marks : 70 Total Pages : 01

N.B.:

- 1) Q.1 is **COMPULSORY**.
- 2) Attempt any **FOUR** Questions from Q.2 to Q.7
- 3) Each question carries **14 MARKS**.

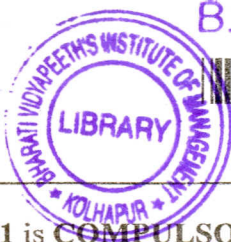
-
- Q.1 a) Define Data warehouse. Explain the need for data warehouse. (07)
- b) What is multi dimensional data model? Explain with an example. (07)
- Q.2 a) Explain how OLAP differs from OLTP. (07)
- b) Explain the various OLAP operations with example (07)
- Q.3 What is data preprocessing? Explain its importance in the process of Data Mining. (14)
- Q.4 a) Explain how the evolution of database technology has taken place in a course of time. (07)
- b) Explain the different types of data that can be mined. (07)
- Q.5 a) What is Association Rule Mining? Explain Market Basket Analysis in detail. (07)
- b) What is Classification and Prediction? Explain various issues in it. (07)
- Q.6 What is Cluster Analysis? Explain the major clustering methods in detail. (14)
- Q.7 Write short notes on **ANY TWO** of the following: (14)
- a) Data Marts
 - b) Attribute selection measures
 - c) Application of Data Mining in Education sector.

Subject : Data Structures

B.C.A. ~~1/1/1~~ / III

Day : Wednesday

Date : 15/04/2015



Time : 10.00 AM TO 01.00 PM

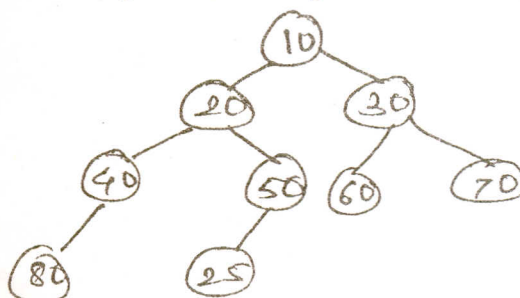
Max Marks : 70 Total Pages : 1

N.B.:

- 1) Q. No. 1 is **COMPULSORY**.
- 2) Attempt **ANY FOUR** questions from Q. No. 2 to Q. No. 7.
- 3) Figures to the right indicate **FULL** marks.

- Q.1 a) Define ADT. Stack as an ADT. (07)
- b) Generate a binary search tree of following data set. (07)
- 30, 45, 20, 65, 35, 28, 14, 25, 08, 32, 50

- Q.2 a) Traverse given tree using in-order traversal. (07)



- b) Explain operations of Single linked list with neat diagram. (07)

- Q.3 a) Write an algorithm for selection sort. (07)
- b) Differentiate between linear search and binary search. (07)

- Q.4 Solve given arithmetic expression using stack. (14)
- 2 3 * 4 5 ↑ + 3 4 * -

- Q.5 Explain the application of queue for FCFS job scheduler. (14)

- Q.6 Write a C program to demonstrate application of array for matrix addition. (14)

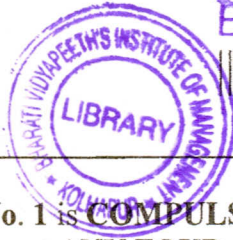
- Q.7 Write short notes on **ANY TWO** of the following: (14)

- a) Depth first search
- b) Dynamic array
- c) Recursion
- d) Circular queue

Subject : Management-VI (Management Support Systems)

Day : Thursday

Date : 16/04/2015



Time : 10.00 AM TO 01.00 PM

Max Marks : 70 Total Pages : 1

N.B. :

- 1) **Q.No. 1 is COMPULSORY.**
- 2) Attempt **ANY FOUR** questions from **Q.No.2 to Q.No.7.**
- 3) Each question **carries 14** marks.

Q.1 How the Information Systems can be used in financial functions in organisation?

Q.2 Explain EIS implantation in an organisation.

Q.3 How the expert systems help in Decision Making?

Q.4 Explain components of MIS.

Q.5 Explain law of requisite variety.

Q.6 What are the information needs of managers at different level in an organisation?

Q.7 Write short notes on **ANY TWO** of the following :

- a) Decision Support System
- b) Heuristic Programming
- c) Human as Information Processor
- d) Control by Exception

Subject : Management-VII (e-Business Applications)

Day : Friday

Date : 17/04/2015



B.C.A. 17-11-11



Time : 10.00 AM TO 01.00 PM

Max Marks : 70 Total Pages : 1

N.B.:

- 1) **Q.No.1 is COMPULSORY.**
- 2) Attempt any **FOUR** questions from **Q.No.2 to Q.No.7.**
- 3) Figures to the right indicate full marks.

-
- Q.1** Define the problems of security threats in E-commerce application and explain different security tools to solve these problems? (14)
- Q.2** Explain Electronic payment technology and requirement for E-payment system. (14)
- Q.3** a) Explain scope and prospectus of e-commerce application. (07)
- b) Explain digital signatures and digital certificate in e-business payment system. (07)
- Q.4** Explain strategies and technical architecture of e-commerce application. (14)
- Q.5** Explain in detail C2C e-commerce and C2B e-commerce. (14)
- Q.6** What is a www? What are the roles of cookies in the www? (14)
- Q.7** Write short notes on Any **TWO** of the following: (14)
- a) e-branding
 - b) Value chain in E-commerce
 - c) Outline marketing
 - d) Data encryption standards