

Subject : Software Project Management

32

Day : Thursday
Date : 07/11/2013



Time : 02.00 PM TO 05.00 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** Calculate the function point value from the following information (for all the three complexities and consider $f_i = 1$). (14)
Number of programmers - 10
Number of Inputs - 12
Number of algorithms - 17
Number of enquiries - 16
Number of internal files - 9
Number of External files - 3
- Q.2** What is project management? Explain the phases of it. (14)
- Q.3** Describe stepwise project planning with activities involved in each step. (14)
- Q.4** Discuss function point analysis model of cost estimation with example. (14)
- Q.5** Describe the process of risk management in software project management. (14)
- Q.6** What are different software quality standards? Explain in detail SEI - CMM and its significance with software project? (14)
- Q.7** Write short notes on any **TWO** of the following: (14)
a) Organizational structure
b) PMBOK
c) PERT

Subject : Data Warehousing & Data Mining

33

Day : Saturday

Date : 09/11/2013



Time : 02.00 PM TO 05.00 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 **FOURTEEN** marks.
- 4) Use of non programmable **CALCULATOR** is allowed.

- Q.1** Explain Apriori algorithm for association rule mining with an example.
- Q.2** Explain star, snowflake and fact constellation schema for data Warehouse.
- Q.3** What are the basic methods used for data cleaning?
- Q.4** Differentiate between:
i) Supervised Vs Unsupervised learning
ii) OLTP Vs OLAP
- Q.5** Explain how data mining can used in retail industry?
- Q.6** Explain K-Means, K-Medoids hierarchical method used for clustering.
- Q.7** Write short notes on any **TWO** of the following:
a) OLAP Server
b) Data Marts and types of data Marts
c) Data Mining Architecture

Subject : Data Structures

34

Day : Tuesday

Date : 12/11/2013



Time : 02.00 PM TO 05.00 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** a) Write a 'C' language program for implementation of a stack using array. (07)
b) Consider the following unsorted array and sort this array using selection sort method. (07)
45 25 75 15 65 55 95 35
- Q.2** Describe the concept of Abstract Data Type with suitable example. (14)
- Q.3** What is queue? Explain various types of queues with their merits and demerits. (14)
- Q.4** Discuss basic types of operations performed on linked list. (14)
- Q.5** What is quick sort? Discuss the quick sort algorithm with help of suitable example. (14)
- Q.6** Explain binary search algorithm. Compare it with linear search algorithm. (14)
- Q.7** Write short notes on any **TWO** of the following: (14)
a) Software characteristics
b) Tree traversals
c) Dynamic memory allocation
d) Recursion.

Subject : Management-VI (Management Support Systems)

35

Day : Friday

Date : 15/11/2013



Time : 02.00 PM TO 05.00 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** Discuss the following terms in detail. (07)
- a) Organizational structure and functions (07)
 - b) Information needs of managers at different levels. (07)
- Q.2** List and discuss the different types of information in detail. Also provide appropriate examples to support your discussion. (14)
- Q.3** How the structure of MIS is influenced by management activity and function? Illustrate in detail. (14)
- Q.4** a) What is sensitivity analysis? (07)
- b) How operations research techniques are used in decision making. (07)
- Q.5** Discuss an information system for personnel functional area in detail. (14)
- Q.6** Compare and differentiate between the conventional system and expert system in detail. (14)
- Q.7** Write short notes on any **TWO** of the following (14)
- a) Simulation in decision making
 - b) Executive Information System (EIS)
 - c) Decision Support System (DSS)
 - d) Feedback control.

Subject : Management-VII (e-Business Applications)

36

Day : Monday

Date : 18/11/2013



Time : 02.00 PM TO 05.00 PM

Max Marks : 70 Total Pages : 1

N.B.:

- 1) **Q. No. 1 is COMPULSORY.**
- 2) **Attempt any FOUR questions from questions Q. No. 2 to Q. No. 7.**

-
- Q.1** **a)** What is e-commerce? Elaborate the broad goals of e-commerce. (07)
- b)** Discuss the various segments of e-commerce with suitable examples. (07)
- Q.2** Explain in detail the following: (14)
- i) B2C e-commerce ii) Value chain in e-commerce
- Q.3** Describe the technical architecture of e-commerce. (14)
- Q.4** What are the different types of Electronic Data Interchange? Also state the advantages of EDI. (14)
- Q.5** What is meant by cryptography? Discuss symmetric and asymmetric cryptography. (14)
- Q.6** What is firewall? Describe the components of a firewall. (14)
- Q.7** Write short notes on Any **TWO** of the following: (14)
- a)** Secure socket layer
- b)** Cookies
- c)** Electronic or digital cash
- d)** e-branding

Subject : Software Project Management 91

Monday
28/04/2014



Time : 02.00 PM TO 05.00 PM
Max Marks : 70 Total Pages : 1

- 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.

- a) Draw the activity network diagram and calculate critical path. (10)

Activity	Description	Predecessors	Time (in days)
A.	Select steering committee	-	15
B	Develop requirement list	-	40
C	Develop system size estimates	-	10
D	Determine vendors	-	2
E	Form evaluation team	A	5
F	Issue request for proposal	B, C, D, E	4
G	Bidders conference	F	1
H	Review submissions	G	25
I	Select vendor short list	H	3
J	Check vendor reference	I	3
K	Vendor demonstration	I	20
L	User's site visit	I	3
M	Select vendor	J, K, L	3
N	Volume sensitive test	M	10
O	Negotiate contracts	M	10
P	Cost Benefits Analysis	N, O	2
Q	Obtain Board of directors approval	P	5

- a) Explain various factors affecting software cost. (04)

Explain the term project management and elaborate project management life cycle. (14)

Describe COCOMO model of estimation with suitable example. (14)

What is risk management? List various types of risks in software projects. (14)

- a) Define software quality. Explain McCall's quality factors. (07)

- a) Explain various software team structures with their merits and demerits. (07)

What is work breakdown structure? Why is it necessary? How does it help to allocate resources? (14)

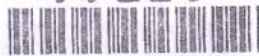
Write short notes on any **TWO** of the following: (14)

- ISO standards
- PMBOK
- Role of Project Manager

Subject : Data Warehousing & Data Mining

92

Day : Wednesday
Date : 30/04/2014



18044

Time : 02.00 PM TO 05.00 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 FOURTEEN marks.
- 4) Use of non programmable CALCULATOR is allowed.

Q.1 Define Data Warehouse. Explain the architecture of data warehouse.

Q.2 What are multidimensional databases? Explain the various OLAP operations that can be performed on multidimensional database.

Q.3 What are the different data preprocessing techniques in Data mining?

Q.4 Explain the terms confidence and support with respect to association rules. Support your answer with an example.

Q.5 What is clustering? Explain the different clustering methods.

Q.6 Explain how data mining is useful in financial data analysis.

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

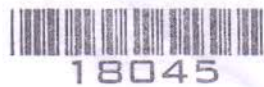
- a) Need for Data Mining
- b) Evolution of database technology
- c) OLAP V/s OLTP

* * *

Subject : Data Structures

93

Friday
02/05/2014



Time : 02.00 PM TO 05.00 PM
Max Marks : 70 Total Pages : 1

- 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.

a) Consider the following unsorted array and sort it using quick sort method. (07)
24 56 47 35 10 90 82 31

b) Write a C language program for implementation of linear queue using array. (07)

What is stack? Describe basic operations performed on stack. Give the application of it. (14)

Explain the concept of tree traversal with suitable example. (14)

What do you mean by linked list? Discuss types of linked list with their merits and demerits. (14)

Describe selection sort algorithm with suitable example. (14)

Define data structure. Describe various abstract data structures with suitable example. (14)

Write short notes on any **TWO** of the following: (14)

- a) Linear search
- b) Recursion
- c) Circular queue
- d) Binary Tree.

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Subject : Management-VI (Management Support Systems)

94

Monday

05/05/2014



18046

Time : 02.00 PM TO 05.00 PM

Max Marks : 70 Total Pages : 1

- 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.

a) Discuss the systems approach to organization in detail. (07)

b) Explain the dynamic nature of decision making along with an appropriate example. (07)

Explain the concept of "Quality of Information" in detail. Provide appropriate examples to support your explanation. (14)

Discuss an information system for inventory control functional area in detail. (14)

Explain the following terms in brief: (14)

- a) Characteristics of Human Information Processing
- b) Limits on Human Information Processing.

Compare and differentiate between Management Information System (MIS) and Decision Support System (DSS) in detail. (14)

What is an Executive Information System (EIS)? Explain. (14)

Write short notes on any **TWO** of the following (14)

- a) Newell-Simon Model
- a) Static Model for Decision Making
- a) Feedback Control
- a) Expert Systems.

* * *

Subject : Management-VII (e-Business Applications)

95

Day : Wednesday

Date : 07/05/2014



Time : 02.00 PM TO 05.00 PM

Max Marks : 70 Total Pages : 1

N.B.:

- 1) **Q. No. 1 is COMPULSORY.**
- 2) Attempt any **FOUR** questions from questions **Q. No. 2 to Q. No. 7.**

- Q.1** a) Differentiate between: (07)
e-commerce goals and Business Goals.
- b) Differentiate between: (07)
B2B e- commerce and B2C e-commerce
- Q.2** What is Domain name? Describe various types of Domains. (14)
- Q.3** What are the various security and privacy issues in e-commerce? (14)
- Q.4** What is meant by online credit card payment system? Explain the purpose of smart card. (14)
- Q.5** Explain Digital signature and Digital certificate in detail. (14)
- Q.6** Explain the System Development life cycle of an e-commerce website. (14)
- Q.7** Write short notes on Any **TWO** of the following: (14)
- a) Electronic Data Interchange
 - b) Data encryption standards
 - c) World wide web and e-commerce
 - d) e-advertising

Subject : Software Project Management

Day : Monday

Date : 10/11/2014



Time : 02.00 PM TO 05.00 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)** Draw the activity network diagram and find out start time, end time and critical path. (10)

Activity	Immediate Predecessors	Duration
A	-	2
B	-	6
C	-	6
D	C	4
E	A	3
F	B	4
G	E	1
H	F G J	2
I	A	3
J	D, I	2

- b) "Putting more people on late project makes it later". Justify. (04)

- Q.2 a)** Define project and project management. Differentiate between software projects and other types of projects. (07)

- b) Explain the role of PMBOK in project management. (07)

- Q.3 a)** What is project planning? Explain its importance. (07)

- b) Explain Gantt chart as project scheduling tool with an example. (07)

- Q.4** Explain the function point analysis method of cost estimation in detail. (14)

- Q.5 a)** What do you mean by risk? Give the top five risks in software projects. (07)

- b) Discuss various team structures with their merits and demerits. (07)

- Q.6 a)** Describe various software quality measures. (07)

- b) Discuss the importance of quality assurance document. (07)

- Q.7** Write a note on **ANY TWO**: (14)

- a) Stages in Contract
- b) Project Manager
- c) CMM

Subject : Data Warehousing & Data Mining

Day : Tuesday

Date : 11/11/2014



Time : 02.00 PM TO 05.00 PM

Max Marks : 70 Total Pages : 1

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** What is a Data Warehouse? Briefly explain architecture of data warehouse with a diagram. (14)
- Q.2** a) Explain the difference between OLAP and OLTP. (07)
- b) Explain different schemas for multi dimensional data model. (07)
- Q.3** a) What is a Data Mart? Explain its different types. (07)
- b) Explain the various patterns that can be mined from huge collection of data. (07)
- Q.4** What is Data Preprocessing? Explain its importance in the process of Data Mining. (14)
- Q.5** a) Explain Market Basket Analysis in detail. (07)
- b) Explain classification by decision tree induction. (07)
- Q.6** What do you understand by partitioning? Explain K-means and K-medoids method of partitioning. (14)
- Q.7** Write short notes on **ANY TWO** of the following: (14)
- a) Application of data mining in Health Care Analysis
 - b) Evolution of Database technology
 - c) Data warehouse back end tools and utilities

Subject : Data Structures

Day : Wednesday

Date : 12/11/2014



Time : 02.00 PM TO 05.00 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. Describe queue as an ADT. (07)
- b) Write an algorithm for insertion sort? Demonstrate it for sorting given data set. (07)
- 35, 45, 54, 20, 14, 78, 80, 08
- Q.2** Write a C program to implement stack using linked list. (14)
- Q.3** Represent given arithmetic expression in binary tree and traverse it appropriately to convert it to postfix notation. (14)
- $((A*B)-C) + (D/F)$
- Q.4** a) Write a C program to implement binary search method. (10)
- b) Define Binary Search Tree. State its properties. (04)
- Q.5** Explain **ANY TWO** of the following: (14)
- a) Dynamic memory allocation
 - b) Circular queue
 - c) 2 D array
 - d) Depth first search
- Q.6** Discuss array as a data structure and discuss operations on array. (14)
- Q.7** Write a C program to demonstrate the operations on queue. (14)

Subject : Management-VI (Management Support Systems)

Day : Thursday

Date : 13/11/2014



Time : 02.00 PM TO 05.00 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 Define MIS? Explain the types of information systems.

Q.2 How would you control quality of information through MIS support? Explain with example of any one service industry.

Q.3 Explain structure of MIS based on Management.

Q.4 Explain components of MIS with suitable example.

Q.5 Explain structure of Expert Systems with example.

Q.6 Explain Newell-Simon model briefly.

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

- a) Expert system
- b) Difference between MIS and DSS
- c) Marketing and Information
- d) Control by Exception

* * * * *

Subject : Management-VII (e-Business Applications)

Day : Friday

Date : 14/11/2014



Time : 02.00 PM TO 05.00 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 E-commerce? Explain Advantages and disadvantages of E-commerce? Compare it with Traditional Business? (14)
- Q.2** Explain with example the system development life cycle for e-commerce website? (14)
- Q.3** a) What is cryptography? Explain in detail types of cryptography? (07)
- b) Define Firewall? Explain types and components of Firewall in detail? (07)
- Q.4** a) Explain Role of Intranet in B2B Applications? (07)
- b) Define Domain? Explain types of domain with example? (07)
- Q.5** Explain types of EDI? Explain Advantages and disadvantages of EDI? (14)
- Q.6** Explain Electronic payment technology and requirement for E-payment system? (14)
- Q.7** Write short notes on Any **TWO** of the following: (14)
- a) Denial of service attacks
 - b) Security tools
 - c) Data encryption standards
 - d) Value chain in E-commerce

Subject : Software Project Management

Day : Thursday
Date : 19/11/2015



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) Draw network diagram for the following project activities and find critical path. [10]

Sr. No.	Activities	Precedence	Days
1	A	---	3
2	B	---	4
3	C	A	5
4	D	A	6
5	E	C	7
6	F	D	8
7	G	B	9
8	H	E, F, G	3

b) "Putting more people on late project make it later". Justify with example. [04]

Q.2 a) What is Software Project Management? Explain its need by describing the problems faced in Project Management. [07]

b) Discuss the knowledge areas identified by project management body of knowledge (PMBOK). [07]

Q.3 a) State and explain the steps involved in Project Planning. [07]

b) Explain Work Break Down Structure with an example. [07]

Q.4 a) What is Software Cost Estimation?. State the factors involved in cost estimation process. [07]

b) Explain COCOMO model of cost estimation. [07]

Q.5 a) Discuss the role of quality assurance during Software Project Management. [07]

b) What is Risk Management? Describe various elements of Risk Management. [07]

Q.6 List the various stakeholders involved in Project Management. Also explain the role of each in Project Management. [14]

Q.7 Write short notes on **ANY TWO** of the following: [14]

- a) Gantt Chart
- b) ISO Standards
- c) Leadership styles

Subject : Data Warehousing & Data Mining

Day : Saturday

Date : 21/11/2015



Time : 10.00 AM TO 01.00 PM

Max Marks : 70 Total Pages : 1

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) What is a Data warehouse? Explain its characteristics in detail. (07)
- b) Explain the various schemas of multi dimensional data models. (07)
- Q.2** a) What is OLAP? Explain the various types of OLAP servers. (07)
- b) What is data mart? Explain its types. (07)
- Q.3** What is data preprocessing? Explain in detail the various techniques of data preprocessing. (14)
- Q.4** a) What is Data Mining? Explain its need. (07)
- b) Explain architecture of Data Mining with the help of a diagram. (07)
- Q.5** What is classification? Explain classification by decision tree induction. (14)
- Q.6** a) What is Cluster Analysis? Explain its need. (07)
- b) Explain K-means method of partitioning with an example. (07)
- Q.7** Write short notes on **ANY TWO** of the following: (14)
- a) OLTP vs. OLAP
 - b) Classification of Association Rules
 - c) Application of Data Mining in Retail Industry

Subject : Data Structures

Day : Tuesday

Date : 24/11/2015



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 | Define ADT. Explain two dimensional array as a data structure. | [14] |
| Q.2 | Write an algorithm to convert infix arithmetic expression to prefix notation. | [14] |
| Q.3 | Explain different types of queue. State difference among those. | [14] |
| Q.4 | Describe with neat diagrams operations of single linked list. | [14] |
| Q.5 | a) Create a binary search tree to represent following data elements.
40, 60, 20, 35, 10, 55, 75, 68, 32, 12.

b) Write C program to search a value in given list using linear search. | [07]
[07] |
| Q.6 | a) Write C program to implement insertion sort method.

b) Define tree and complete binary tree. | [10]
[04] |
| Q.7 | Write short notes on ANY TWO of the following:

a) Stack operations
b) Depth first search
c) Doubly linked list | [14] |

Subject : Management-VI (Management Support Systems)

Day : Friday

Date : 27/11/2015



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.

SECTION – I

- Q.1** a) Explain Heuristic programming in detail. (07)
 b) Write cases related to feedback control. (07)
- Q.2** Explain various types of systems. What is the need of Executive Information and support system. (14)
- Q.3** Differentiate between MIS & DSS. (14)
- Q.4** Discuss in brief the information system for following functional area (14)
 a) Financial
 b) Marketing
- Q.5** What is expert system? Discuss its structure in detail. (14)
- Q.6** Explain modeling process with the help of sensitivity analysis. (14)
- Q.7** Write short note on (Any TWO) (14)
 a) Control by exception
 b) Newell –Simon model
 c) Types of Information

Subject : Management-VII (e-Business Applications)

Day : Monday

Date : 30/11/2015



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

- Q.1 a)** What are the electronic cheques? Explain how electronic payment technology work. (07)
- b)** Discuss the various segments of e – commerce with suitable example. (07)
- Q.2** Explain component & type of e – commerce with advantages & disadvantages. (14)
- Q.3** What is digital signature & digital certificate explain it in detail. (14)
- Q.4** Explain system development life cycle in e – commerce web site. (14)
- Q.5** Describe the technical architecture of e – commerce. (14)
- Q.6** What is cryptography & explain its types. (14)
- Q.7** Write short note on any **TWO** of the following (14)
- a)** Internet service provider
 - b)** Online marketing
 - c)** Domain name
 - d)** Cookies.

Subject : Software Project Management

Day : Monday

Date : 11/04/2016



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) Draw network diagram and find critical path.**[10]**

Activity	Precedence	Duration
J	---	6
M	J	4
V	M	6
Y	V	8
L	J	2
Q	L	8
W	Y, Q	1
X	W	1

- b) Design a Gantt Chart to show the progress of workshop arranged by you at your college. **[04]**

Q.2 a) Define Project and Project Management. Differentiate between software project and other types of projects. **[07]**

- b) Explain the role of project management body of knowledge (PMBOK) in project management. **[07]**

Q.3 Discuss stepwise project planning in detail.

[14]

Q.4 a) Discuss Function Point Analysis model of Cost Estimation.

[07]

- b) Describe the factors that influence the quality of software products.

[07]

Q.5 a) Describe concept of Work Break Down structure with suitable example.

[07]

- b) Explain any three non-algorithmic methods of cost estimation.

[07]

Q.6 What is Risk Management? Explain elements of risk management in detail.

[14]

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

[14]

- a) CMM Standards
- b) Organizational Structure
- c) Types of contracts

Subject : Data Warehousing & Data Mining

Day : Wednesday

Date : 13/04/2016



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.

-
- Q.1** State and explain the need of separate Data warehouse with example. (14)
- Q.2** Design the data warehouse for "Super Market" selling multi-branded daily needs. Explain various dimensions in details. (14)
- Q.3** What are the needs of objectives of Data Preprocessing? Explain with example. (14)
- Q.4** How the data mining systems are classified? What are the major data mining issues? Discuss. (14)
- Q.5** State the challenges in KDD process and explain the role of Data mining architecture in addressing challenges and issues in KDD. (14)
- Q.6** Differentiate between classification and predication. (14)
- Q.7** Explain the commercial data mining system with reference to healthcare predictive analysis. (14)

* * * *

Subject : Data Structures

Day : Monday

Date : 18/04/2016



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** Explain different operations of single dimensional character array (string). **[14]**
- Q.2** Write a C program to find factorial of given integer using recursion further trace the program to demonstrate the use of stack in recursion. **[14]**
- Q.3** Explain the application of queue in first come first serve job scheduling method. **[14]**
- Q.4** Describe implementation of stack using linked list. **[14]**
- Q.5** Explain in-order and pre-order tree traversal methods through proper example. **[14]**
- Q.6** a) Demonstrate the working of Bubble Sort to Sort given integer list. **[10]**
40, 60, 08, 38, 24, 92, 55, 72, 86, 18.
- b) Define binary search tree. **[04]**
- Q.7** Write short notes on **ANY TWO** of the following: **[14]**
- a) Circular queue
 - b) Linear search
 - c) Two dimensional array

* * * *

Subject : Management-VI (Management Support Systems)

Day : Thursday

Date : 21/04/2016



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.

SECTION – I

- Q.1** Discuss in brief the information system for following area. (14)
- a) Personnel function
 - b) Inventory control
- Q.2** What is system? Discuss various types of systems with suitable examples. (14)
- Q.3** What is Expert system? Discuss its structure in detail. (14)
- Q.4**
- a) Explain use of executive information system in brief. (07)
 - b) Explain need of DSS in brief. (07)
- Q.5** What is Heuristic programming? Discuss in detail. (14)
- Q.6** Differentiate between the Management Information System and Data Processing. (14)
- Q.7** Write short note on (Any TWO) (14)
- a) Need of feedback control
 - b) Operation Research techniques
 - c) Control by exception.

Subject : Management-VII (e-Business Applications)

Day : Saturday

Date : 23/04/2016



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**

- Q.1 a) What are the various security & privacy issues in e- commerce (07)
b) Explain digital signature & digital certificate in detail. (07)
- Q.2 What is e – commerce & elaborate the broad goals. (14)
- Q.3 Explain the following in detail. (14)
i) B2C e – commerce
ii) Security threats
- Q.4 What are the different types of electronic Data interchange? Also state the advantages of EDI. (14)
- Q.5 Differentiate traditional commerce Vs e – commerce. (14)
- Q.6 What are the electronic cheques? Explain how electronic payment technology work (14)
- Q.7 Write short note on any **TWO** of the following (14)
a) Viruses
b) Digital cash
c) W.W.W.
d) Online marketing