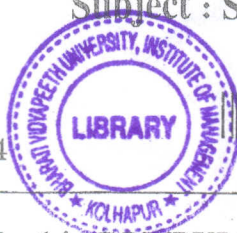


Subject : Software Project Management

B.C.A. - I / II / III

Day : Monday

Date : 28/04/2014



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 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

b) Explain various factors affecting software cost.

(04)

Q.2 Explain the term project management and elaborate project management life cycle.

(14)

Q.3 Describe COCOMO model of estimation with suitable example.

(14)

Q.4 What is risk management? List various types of risks in software projects.

(14)

Q.5 a) Define software quality. Explain McCall's quality factors.

(07)

b) Explain various software team structures with their merits and demerits.

(07)

Q.6 What is work breakdown structure? Why is it necessary? How does it help to allocate resources?

(14)

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

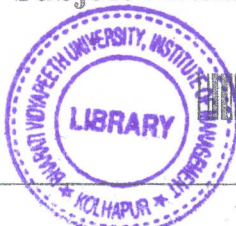
(14)

- a) ISO standards
- b) PMBOK
- c) Role of Project Manager

Subject : Data Warehousing & Data Mining

Day : Wednesday

Date : 30/04/2014



B.C.A. I / II / III



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

Day : Friday

Date : 02/05/2014



B.C.A. - I / II / III



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) 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)
- Q.2 What is stack? Describe basic operations performed on stack. Give the application of it. (14)
- Q.3 Explain the concept of tree traversal with suitable example. (14)
- Q.4 What do you mean by linked list? Discuss types of linked list with their merits and demerits. (14)
- Q.5 Describe selection sort algorithm with suitable example. (14)
- Q.6 Define data structure. Describe various abstract data structures with suitable example. (14)
- Q.7 Write short notes on any **TWO** of the following: (14)
- a) Linear search
  - b) Recursion
  - c) Circular queue
  - d) Binary Tree.

\* \* \*



Subject : Management-VI (Management Support Systems)

Day : Monday

Date : 05/05/2014



B.C.A. - I / II / III

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.

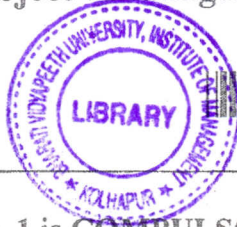
- Q.1 a) Discuss the systems approach to organization in detail. (07)
- b) Explain the dynamic nature of decision making along with an appropriate example. (07)
- Q.2 Explain the concept of "Quality of Information" in detail. Provide appropriate examples to support your explanation. (14)
- Q.3 Discuss an information system for inventory control functional area in detail. (14)
- Q.4 Explain the following terms in brief: (14)
- a) Characteristics of Human Information Processing
  - b) Limits on Human Information Processing.
- Q.5 Compare and differentiate between Management Information System (MIS) and Decision Support System (DSS) in detail. (14)
- Q.6 What is an Executive Information System (EIS)? Explain. (14)
- Q.7 Write short notes on any **TWO** of the following (14)
- a) Newell-Simon Model
  - b) Static Model for Decision Making
  - c) Feedback Control
  - d) Expert Systems.

\* \* \*

Subject : Management-VII (e-Business Applications)

Day : Wednesday

Date : 07/05/2014



B.C.A. - I / II / III



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

\* \* \* \* \*