M.C.A. II Semester Supplementary Examinations April 2022
Computer Networks

Max. Marks: 60   Time: 3 Hours
Answer *all five* units by choosing one question from each unit (5 x 12 = 60 Marks)
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			Marks	CO	Blooms Level

UNIT–I

1.	a)	Explain about Network software.	6M	CO1	L3
	b)	Illustrate the four levels of addressing employed in TCP/IP protocols.	6M	CO1	L4

OR

2.	a)	List what networks are used at your college. Describe the network types, topologies, and switching methods used there.	6M	CO1	L2
	b)	List and explain the uses of computer networks	6M	CO1	L1

UNIT–II

3.	a)	One way of detecting errors is to transmit data as a block of n rows of k bits per row and add parity bits to each row and each column. The bit in the lower-right corner is a parity bit that checks its row and its column. Will this scheme detect all single errors? Double errors? Triple errors? Show that this scheme cannot detect some four-bit errors.	6M	CO2	L3
	b)	Discuss the Wireless LAN Protocols.	6M	CO2	L2

OR

4.	a)	The wireless LANs that we studied used protocols such as MACA instead of using CSMA/CD. Under what conditions, if any, would it be possible to use CSMA/CD instead? Explain.	6M	CO2	L4
	b)	List and explain the different error correcting codes in detail	6M	CO2	L3

UNIT–III

5.	a)	Explain the building and distribution of link state packets in link state routing algorithm.	6M	CO3	L4
	b)	Discuss the Network layer design issues.	6M	CO3	L2

OR

6.	a)	List and explain the elements of transport protocols.	6M	CO3	L3
	b)	Describe the Internetwork Routing.	6M	CO3	L2

UNIT–IV

7.	a)	The following is a dump of a UDP header in hexadecimal format. CB84000D001C001C, What is the destination port number?	6M	CO4	L4
	b)	Compare and contrast the two TCP/IP transport protocols: TCP and UDP, in terms of demultiplexing, reliability and flow control.	6M	CO4	L3

OR

8.	a)	Explain DNS with reference to its components and working.	6M	CO4	L3
	b)	List and explain the Elements of Transport Protocols.	6M	CO4	L4

UNIT–V

9.	a)	What are the two categories of encryption/decryption? What are the main differences between the two categories?	6M	CO5	L1
	b)	Compare and contrast the DES and RSA	6M	CO5	L3

OR

10.	a)	Compute the bits number 1, 16, 33, and 48 at the output of the first round of the DES Decryption, assuming that the ciphertext block is composed of all ones and the external key is composed of all ones.	6M	CO5	L2
	b)	List and explain the advantages and disadvantages of RSA	6M	CO5	L3

END

Code: 9P1A25

M.B.A. II Semester Supplementary Examinations April 2022
Management Information System

Max. Marks: 60   Time: 3 Hours
Answer *all five* units by choosing one question from each unit (5 x 12 = 60 Marks)
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UNIT–I

1. Why are information systems so essential for running and managing a business today?   12M

OR

2. Explain how marketing information systems support the marketing managers in their decision making.   12M

UNIT–II

3. Describe how computers process data into useful information for problem solving and decision making.   12M

OR

4. List and explain are the major types of models used in decision support systems.   12M

UNIT–III

5. List different types of systems. Explain each type in detail   12M

OR

6. Describe completing the system development process   12M

UNIT–IV

7. Describe the components of strategic information planning.   12M

OR

8. a) State the benefits of strategic information systems.   4M
   b) Define value chain explain about value chain in detail   8M

UNIT–V

9. Discuss why information systems are vulnerable to destruction, error, and abuse.   12M

OR

10 Enumerate the most important tools and technologies for safeguarding information resources?   12M

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Code: 9P1A26

M.B.A. II Semester Supplementary Examinations April 2022
Research Methodology

Max. Marks: 60   Time: 3 Hours
Answer *all five* units by choosing one question from each unit (5 x 12 = 60 Marks)
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		Marks	CO	Blooms Level
	UNIT–I			
1.	Describe the different types of research, clearly pointing out the difference between an experimental research and a survey.	12M	CO1	L2
	OR			
2.	The task of defining the research problem often follows a sequential pattern". Explain.	12M	CO1	L2
	UNIT–II			
3.	Give your understanding of a good research design and describe some of the important research designs used in experimental hypothesis-testing research Study.	12M	CO2	L5
	OR			
4.	Under what circumstances would you recommend a probability sample and a non-probability sample?	12M	CO2	L5
	UNIT–III			
5.	"Scaling describes the procedures by which numbers are assigned to various degrees of opinion, attitude and other concepts." Discuss. Also point out the bases for scale classification.	12M	CO3	L2
	OR			
6.	Write short notes on Likert-type scale and Multidimensional scaling (MDS).	12M	CO3	L2
	UNIT–IV			
7.	'Data collection helps to evaluate the outcome of the problem'. Justify how does data collection helps the researcher in evaluating a problem.	12M	CO4	L5
	OR			
8.	Write a brief note on different types of analysis of data pointing out the significance of each.	12M	CO4	L1
	UNIT–V			
9.	Integrate the techniques to be adopted in presentation of data in research.	12M	CO5	L6
	OR			
10.	Mention the different types of report, pointing out the difference between the reports.	12M	CO5	L1

END