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Total No. of Questions: 16]

[Total No. of Printed Pages : 3

SEM2014

M.Sc. (IInd Semester) Examination, 2021 COMPUTER SCIENCE

Paper - MCS-202

(Data Communication and Networking)

[Maximum Marks: 40 Time: 11/2 Hours Note:-The question paper contains three Sections. (Marks : $1 \times 10 = 10$) Section-A Answer all the ten questions carry 1 mark each. The answer should not Note: exceed 50 words. (Marks : $3 \times 5 = 15$) Section-B Answer five questions by selecting at least one question from each Unit. Each Note :question carries 3 marks. Answer should not exceed 200 words. $(Marks: 5 \times 3 = 15)$ Section-C Answer three questions by selecting one question from each Unit. Each Note :question carries 5 marks. The answer should not exceed 500 words.

Section-A

- 1. Attempt all questions. Answer should not exceed 50 words in each question.
 - (i) Define FDM.
 - (ii) How many types of Network?

BI-1631 (1) SEM2014 P.T.O.

	(IV)	Explain stop and wait ARQ.		
	(v)	Define Tunnelling.		
	(vi)	Explain Network Addressing.		
	(vii)	Describe categories of Cybercrime.		
	(viii)	Explain DOS.		
	(ix)	Define Cyber Law.		
	(x)	Describe type of Phishing.		
		Section-B		
Note	:	Answer five questions in about 200 words by selecting at least one question		
	1	from each Unit. Each question carries 3 marks.		
		Unit–I		
2.	Explain LAN topologies and security of Data Communication and Networking.			
3.	Describe Multiplexing and write two differences between TDM and CDM.			
4.	Defin	ne Message Switching of Networking.		
		Unit-II		
5.	Explain Data link control in DLL.			
6.	Difference between IPV4, IPV6 of Network Layer.			
7.	Describe user Datagram Protocol of Transport Layer.			
		Unit-III		
8.	Define Cybercrime and Information Security.			
9.	Explain types and techniques of ID theft.			
10.	Disci	uss Digital Signatures.		
BI	-16	SEM2014		

(iii) Define Datagram.

Section-C

Unit-I

- 11. Define and explain OSI Model.
- 12. Difference between Circuit Switching and Packet Switching.

Unit-II

- 13. Define Network Layer Protocols in detail.
- 14. Explain client-server Model of Application Layer.

Unit-III

- 15. Define cybercriminals and explain classification of cybercrime in detail.
- 16. Write short notes on the following:
 - (i) SQL Injection Method in Cybercrime
 - (ii) Anti-cybercrime Strategies