

Roll No. :

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)

Time : 1½ Hours]

[Maximum Marks : 40

Note :- The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all the *ten* questions carry 1 mark each. The answer should not exceed 50 words.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer *five* questions by selecting at least *one* question from each Unit. Each question carries 3 marks. Answer should not exceed 200 words.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer *three* questions by selecting *one* question from each Unit. Each 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 ?

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- (iii) Define Datagram.
- (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 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. Define 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. Discuss Digital Signatures.

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