

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BFMS-439

M.Sc. (Final) Examination, 2023

COMPUTER SCIENCE

Paper - MCS-201

(DCN)

Time : 3 Hours]

[Maximum Marks : 50

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

Section-A

1. (i) Define Topology.
- (ii) What is a node in a Network ?
- (iii) Define Switching.

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- (iv) Define Datagram.
- (v) What do you understand by an error in Digital Communication ?
- (vi) Define Sliding Window.
- (vii) What is Routing ?
- (viii) Write importance of Tunneling.
- (ix) Define Cyber Crime.
- (x) What is Phishing ?

Section-B

2. Write a note on Network Types.

Or

Explain TCP/IP stack of protocols.

3. What is Message Switching ? Explain.

Or

Explain the various digital transmission modes.

4. Write a note on Enq/Ack.

Or

Differentiate A stop & wait ARQ and sliding window ARQ.

5. Explain how network addressing is performed.

Or

Explain client server model.

6. Explain Denial of Service (DOS) attack.

Or

Classify Cybercrime.

Section–C

7. Explain OSI model in detail.
8. Explain the various switching techniques.
9. Explain the various error detection and correction techniques.
10. Give a note on network layer protocols.
11. What is Phishing ? Explain the various phishing techniques with suitable examples.