

SP-2268

**M.Sc. (Final) EXAMINATION, 2019
COMPUTER SCIENCE**

MCS-201

(DCN)

Time allowed : Three hours

Maximum Marks : 50

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SECTION – A (Marks : 2 × 10 = 20)

Answer all **ten** questions (Answer limit **50** words). Each question carries **02** marks.

SECTION – B (Marks : 3 × 5 = 15)

Answer all **five** questions. Each question has internal choice (Answer limit **200** words). Each question carries **03** marks.

SECTION – C (Marks : 5 × 3 = 15)

Answer any **three** questions out of **five** (Answer limit **500** words). Each question carries **05** marks.

SECTION – A (Marks : 2 × 10 = 20)

I. Attempt **all** questions. Answer should not exceed 50 words in each question :

- (i) Define topology.
- (ii) What is protocol ?
- (iii) Define FDM.
- (iv) What is datagram ?
- (v) What is ARQ ?
- (vi) What is sliding window ?
- (vii) Define routing.
- (viii) What is ICMP ?
- (ix) Define key loggers.
- (x) Explain digital signature.

SECTION – B (Marks : 3 × 5 = 15)

Attempt **all** questions. Answer should not exceed 200 words in each question.

2. What is computer network ? Explain different types of network.

OR

Explain different types of network topology.

3. Describe different types of transmission media.

OR

Explain multiplexing.

4. What is error detection and correction ? Explain.

OR

Explain data link control.

5. Describe network addressing.

OR

Explain IPv4 and IPv6.

6. Write short notes :
- (a) SQL injection
 - (b) Indian IT Act
 - (c) Cyber offences

OR

Explain Cyber Law and its Act.

SECTION – C (Marks : 5 × 3 = 15)

7. Describe OSI model.
8. Explain different switching techniques with suitable diagram.
9. Describe flow and error control of data link layer.
10. Describe TCP and UDP.
11. Explain different tools and methods used in cyber crime.