

NOVEMBER/DECEMBER 2019

MCS33 — MOBILE COMPUTING

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Analyze the challenges in wireless communication networks.

Or

- (b) What is the role of MAC protocol, Classify its types.

2. (a) Draw and explain the architecture of TCP/IP protocol.

Or

- (b) Differentiate between traditional IP and mobile IP.

3. (a) Describe GSM architecture and its services in detail.

Or

- (b) Expand GPRS. State its merits and demerits.

4. (a) What is ad-hoc network? List out the uses.

Or

- (b) Compare MANET and VANET.

5. (a) List few commercial operating systems for mobile phone.

Or

- (b) Differentiate mobile operating system and desktop operating system.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Explain mobile computing and its applications in recent era.

7. Point out the advantages and disadvantages of mobile TCP and summarize the features of TCP.

8. Identify the similarities and dissimilarities between GSM and UMTS networks.

9. Illustrate the characteristics and its applications of MANET.

10. Discuss the terms

(a) M-Commerce applications

(b) Mobile payment systems