

Total No. of Questions : 8]

SEAT No. :

PC2425

[Total No. of Pages : 2

[6354]-546

B.E. (E&TC Engineering)

MOBILE COMPUTING

(2019 Pattern) (Semester - VIII) (Elective - V) (404191 E)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6 and Q7 or Q8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Use of calculator is allowed.
- 5) Assume suitable data if necessary.

- Q1)** a) Compare MANET and VANET? [6]
b) Explain with suitable data flow diagram, client initialization via DHCP.[6]
c) What is hybrid routing? Explain zone routing protocol (ZRP) with suitable diagram. [6]

OR

- Q2)** a) List and explain the applications of MANET. [6]
b) Compare proactive routing protocols with reactive routing protocols.[6]
c) How does Ad Hoc On-Demand Distance Vector Routing (AODV) route the data? What are its advantages (any 1) and disadvantages (any 1)?[6]

- Q3)** a) Explain [9]
i) Indirect TCP
ii) Snoop TCP
iii) Mobile TCP
b) Explain transaction-oriented TCP with suitable diagram. What are its advantages and disadvantages? [8]

OR

- Q4)** a) Explain the modifications of Indirect TCP. What are its advantages and disadvantages? [9]
b) Explain need of Mobile IP and elaborate IP Packet Delivery? [8]

P.T.O.

- Q5) a)** Explain Rayleigh distribution. How mean and variance of Rayleigh distribution is calculated? [6]
- b) What is non-coherent detection? Explain with neat diagram, noncoherent detection of FSK. [6]
- c) Explain Ricean Fading in detail? [6]

OR

- Q6) a)** Describe multipath propagation with neat diagram. What is ISI in multipath fading channels? [6]
- b) Compare wideband and narrowband channels. List any two channel models used in each channel. [6]
- c) Explain BER Fading in detail? [6]

- Q7) a)** Explain [9]
- i) Palm OS
 - ii) Symbian OS
 - iii) iOS
- b) What is M-commerce? List out benefits of M-commerce. Briefly explain any three applications of M-commerce. [8]

OR

- Q8) a)** What is a mobile payment system? Explain payment process using credit card. List advantages and disadvantages of M-commerce. [9]
- b) Write short note on [8]
- i) B2C
 - ii) B2B

