

Total No. of Questions : 8]

SEAT No. :

PE-2228

[Total No. of Pages : 2

[6584]-129
B.E. (E&TC)
MOBILE COMPUTING
(2019 Pattern) (Semester - VIII) (404191-E) (Elective-V)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

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

Q1) a) What are the key differences between MANETs and VANETs? [8]

b) Explain Data flow diagram with Client initialization via DHCP explanation. [9]

OR

Q2) a) How does Ad Hoc On-Demand Distance Vector Routing (AODV) route the data? What are its advantages and disadvantages. [8]

b) What is hybrid routing? Explain zone routing protocol (ZRP) with suitable diagram. [9]

Q3) a) Explain the Traditional TCP and implications of mobility control? [8]

b) Explain transaction-oriented TCP with Diagram? Write Advantages & Disadvantages? [9]

OR

Q4) a) Explain the modifications of Indirect TCP. What are its advantages and disadvantages? [8]

b) Explain need of Mobile IP and elaborate IP Packet Delivery? [9]

Q5) a) Explain fading and different types of fading in detail. [9]

b) Explain Ricean fading channel model. Differentiate between Rayleigh fading and Ricean fading. [9]

OR

P.T.O.

Q6) a) Describe multipath propagation with neat diagram. What is ISI in multipath fading channels? [9]

b) What is non-coherent detection? Explain with neat diagram, non-coherent detection of FSK. [9]

Q7) a) Draw B2B model and explain any one B2B application. [9]

b) What is (Business to Customer) B2C. List the B2C applications. List the pro and cons of M-commerce. [9]

OR

Q8) a) What is mobile computing? Explain any five characteristics of mobile computing. [9]

b) State and explain the responsibilities of Operating Systems in mobile devices. Compare features of Windows Mobile OS, Palm OS, Symbian OS, iOS, Android OS, and Blackberry OS. [9]
