

Total No. of Questions : 10]

SEAT No. :

P-2863

[Total No. of Pages : 2

[6004]-560

**B.E. (Electronics & Tele Communication)**

**MOBILE COMPUTING (End Sem.)**

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

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data if necessary.*

**Q1) a)** Compare proactive routing protocols with reactive routing protocols. [8]

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

OR

**Q2) a)** Explain with suitable data flow diagram, client initialization via DHCP. [8]

b) What is hybrid routing? Explain zone routing protocol (ZRP) with suitable diagram. [8]

**Q3) a)** Describe IP packet delivery between two mobile nodes in a mobile IP network. Why reverse tunneling is required? [8]

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

OR

**Q4) a)** Why and when encapsulation is needed? List different methods of encapsulation and explain any one of them. [8]

b) Explain transaction-oriented TCP with suitable diagram. What are its advantages and disadvantages? [8]

**P.T.O.**

**Q5) a)** Explain Rayleigh distribution. How mean and variance of Rayleigh distribution is calculated? [7]

b) Compare wideband and narrowband channels. List any two channel models used in each channel. [7]

OR

**Q6) a)** Describe multipath propagation with neat diagram. What is ISI in multipath fading channels? [7]

b) What is non-coherent detection? Explain with neat diagram, non-coherent detection of FSK. [7]

**Q7) a)** What is M-commerce? List out benefits of M-commerce. Briefly explain any three applications of M-commerce. [7]

b) Explain mobile operating system. What are needs of a mobile OS? List different types of OS. [7]

OR

**Q8) a)** Draw B2B model and explain any one B2B application. [7]

b) Write a short note on mobile computing and its three basic components. [7]

**Q9)** What is a mobile payment system? Explain payment process using credit card. List advantages and disadvantages of M-commerce. [10]

OR

**Q10)** Explain snooping TCP with proper diagram. List out its advantages and disadvantages. [10]

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