

Total No. of Questions : 10]

SEAT No. :

P-6625

[Total No. of Pages : 2

[6181]-188

B.E. (E&TC) (Theory)

MOBILE COMPUTING

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

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8 and Q.9 or Q.10.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

Q1) a) What is the basic purpose of DHCP? Explain the protocol with suitable diagram. [8]

b) Compare proactive routing protocols with reactive routing protocols. [8]

OR

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

b) Explain basic terminologies of mobile IP. [8]

Q3) a) What is encapsulation in mobile IP? List different methods of encapsulation and explain any one of them. [8]

b) Explain snooping TCP with proper diagram. List its advantages and disadvantages. [8]

OR

Q4) a) Write short note on mobile-TCP. List its advantages and disadvantages. [8]

b) Explain with diagram the registration process of a mobile node via foreign agent (FA) and directly with home agent (HA). [8]

P.T.O.

- Q5)** a) Explain fading in detail? Classify types of fading. [7]
b) Explain Ricean fading channel model. Differentiate between Rayleigh fading and Ricean fading. [7]

OR

- Q6)** a) Compare wideband and narrowband channels. List any two channel models used in mentioned channels. [7]
b) Explain reflection, scattering and ISI in multipath fading channel with suitable diagram. [7]

- Q7)** a) What is mobile computing? Describe three components of mobile computing. [7]
b) Draw B2C model and explain any one B2C application. [7]

OR

- Q8)** a) Explain in brief design issues of mobile OS. [7]
b) What is M-commerce? Explain in brief any five attributes of M-commerce. [7]

- Q9)** What is an ad-hoc network? Explain VANET and MANET in detail. [10]

OR

- Q10)** Explain any five characteristics of mobile computing. [10]

