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]**

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