Total No. of Questions : 8]

SEAT No. :

PF5297

[Total No. of Pages : 2

[6627]-142
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 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) What is the basic purpose of DHCP? Explain the protocol with suitable diagram. **[8]**

b) What is an ad-hoc network? Explain VANET and MANET in detail. **[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 encapsulation in mobile IP? List different methods of encapsulation and explain any one of them. **[9]**

Q3) a) Write short note on mobile-TCP. List its advantages and disadvantages. **[8]**

b) Explain snooping TCP with proper diagram. List its advantages and disadvantages. **[9]**

OR

Q4) a) Write short note on selective retransmission, an extension of 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). **[9]**

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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

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) List and explain in brief the design issues of a mobile OS. **[9]**

b) Draw B2B model and explain any one B2B application. **[9]**

OR

Q8) a) What is M-commerce? List out benefits of M-commerce. Briefly explain any three applications of M-commerce. **[9]**

b) What is mobile payment system? Explain payment process using credit Card. **[9]**

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