SEAT No. :

PA-948

[Total No. of Pages : 2]

[5927]- 394

B.E. (Information Technology)
MOBILE COMPUTING
(2019 Pattern) (Elective- III)(Semester - VII) (414444 A)

Time :2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:
1) *Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
2) *Figures to the right indicate full marks.*
3) *Neat diagrams must be drawn wherever necessary.*
4) *Use of Electronic calculator is allowed.*
5) *Assume suitable data, if necessary.*

Q1) a) Explain the LTE network architecture. **[9]**

b) Explain the Second Generation of wireless communication with its standards. **[9]**

OR

Q2) a) Write short note on: Fifth generation telecommunication standard or 5G. **[9]**

b) Write a note on Third Generation Wireless Networks (3G). **[9]**

Q3) a) Describe DSDV and DSR routing algorithms for adhoc networks. **[8]**

b) How the agent can be discovered using Mobile IP? Give the overlay of agent advertisement packet which includes mobility extension. **[9]**

OR

Q4) a) Write a short note on **[9]**
     i) Hidden and exposed terminal problem
     ii) Mobility of nodes
     iii) Resource Constraint

b) What is Tunnelling and Encapsulation and Reverse Tunnelling in Mobile IP? **[8]**

P.T.O.

Q5) a) Explain in detail WML and explain its features. **[9]**

b) Explain Indirect-TCP and Snooping TCP with diagram. **[9]**

OR

Q6) a) Explain briefly WAP model architecture. **[9]**

b) Explain Slow start, Fast retransmit/fast recovery in regard with TCP.**[9]**

Q7) a) Explain Mobile Device Operating Systems with Special Constraints & Requirements. **[9]**

b) Write a note on Software Development Kit-iOS SDK and Android SDK. **[8]**

OR

Q8) a) Explain Mobile Payment System with security issues involved in it. **[9]**

b) Write a short note on : **[8]**
   i) Palm OS
   ii) Symbian OS
   iii) iOS
   iv) Android.

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