

Total No. of Questions : 8]

SEAT No. :

PA-948

[5927]- 394

[Total No. of Pages : 2

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.

