

Total No. of Questions : 8]

SEAT No. :

P7838

[Total No. of Pages : 2

[6181]-194

B.E. (Information Technology)

MOBILE COMPUTING

(2019 Pattern) (Semester-VII) (414444 A) (Elective-III)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *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) Explain in detail the Third Generation Wireless Networks (3G). **[9]**

b) Explain the 5G technology with advantage and disadvantages. **[9]**

Q3) a) What is Tunneling and Encapsulation in Mobile IP. **[8]**

b) Explain in detail the DHCP protocol mechanism. **[9]**

OR

Q4) a) How the agent can be discovered using Mobile IP? Give the overlay of agent advertisement packet which includes mobility extension. **[8]**

b) Describe DSDV and DSR routing algorithms for adhoc networks? **[9]**

Q5) a) Explain WTP Protocol. Can we use Snooping TCP as a transparent TCP? **[9]**

b) Explain the requirements for the evolution of new mobile IP protocol. **[9]**

OR

P.T.O.

- Q6)** a) Explain in detail the WAP model architecture. [9]
b) Explain Slow start, Fast retransmit/fast recovery in regard with TCP.[9]

- Q7)** a) Write short notes on: [9]
i) Symbian OS
ii) Android.
b) Discuss the security issues in M Commerce. [8]

OR

- Q8)** a) Explain the components of Mobile Operating System. [9]
b) Write a note on Software Development Kit-iOS SDK and Android SDK? [8]