SEAT No. :

PB2325

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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) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, and Q.7 or Q.8.*
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 4G and how it works? List down specification of 4G. **[8]**

b) Discuss the evolutions of Mobile Communication Technologies in detail. **[9]**

OR

Q2) a) Write short note on : Fifth generation telecommunication standard or 5G. **[8]**

b) Explain Massive MIMO technology in details. **[9]**

Q3) a) Illustrate the need of Mobile IP and its working with a diagram? **[9]**

b) Explain VANET Architecture in details. **[9]**

OR

Q4) a) Write a short note on Hybrid Routing ZRP Protocol, Explain with architecture. **[9]**

b) Why is Mobile IP packet required to be forwarded through a tunnel? Explain minimal techniques of encapsulation of Mobile packet. **[9]**

Q5) a) Explain the working of Mobile TCP and its advantages and disadvantages. **[8]**

b) Describe briefly WAP protocol stack in details. **[9]**

OR

P.T.O.

Q6) a) What is Mobile Agent? Describe different features of Mobile Agent. **[8]**

b) Compare I-TCP, Snooping TCP and Mobile TCP. **[9]**

Q7) a) Describe Application Framework of Android Operating system. **[9]**

b) Discuss any three Mobile Operating systems that are widely used in mobile phones. **[9]**

OR

Q8) a) Describe iOS Software Development Kit (SDK) in details. **[9]**

b) What is Mobile Payment? Explain types of Mobile payment in detail.**[9]**

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