END TERM EXAMINATION

EIGHTH SEMESTER [B.Tech] SEPTEMBER-OCTOBER 2020

Paper Code: ETIT-402　　　　　　**Subject: Mobile Computing**

(Batch-2013 Onwards)

Time: 2 Hours　　　　　　　　　　　**Maximum Marks :75**

Note: Attempt three questions in all including question no. 1 which is compulsory. Internal choice is indicated.

Q1　Attempt **any five** following in brief:　　　　　　　　(5x5=25)

(a) Differentiate between tunnelling and reverse tunnelling.

(b) Difference between HLR and VLR.

(c) Explain WAP Architecture in Brief.

(d) What is HiperLan?

(e) What are modifications required for GPRS support on GSM Network.

(f) Explain Piconet and Scatternet in Bluetooth with Diagrams.

(g) Why is shape of cell Hexagonal?

UNIT-I

Q2　(a) What is handoff in Cellular Systems. Explain different types of hand offs.　(12.5)

(b) Mention Multiple access technologies used in 1G, 2G, 3G, 4G and 5G.　(12.5)

OR

Q3　(a) Draw Mobile Computer architecture with GPRS support for a Mobile Device.　(12.5)

(b) Explain WAP proxy and WAP gateway with respect to WAP Architecture.　(12.5)

UNIT-II

Q4　(a) Explain Location Management in mobile networks.　(12.5)

(b) Explain three applications of Bluetooth in detail.　(12.5)

OR

Q5　(a) Explain DSDV and DSR.　(12.5)

(b) Explain Wireless Mark-up Language in detail.　(12.5)

UNIT-III

Q6　(a) Discuss Mobile IP. What are modifications in TCP for Mobile environment?　(12.5)

(b) Explain ZigBee protocol for communication.　(12.5)

OR

Q7　(a) What are Advantages and Disadvantages of IrDA.　(12.5)

(b) What is importance of frequency reuse scheme explain with Diagram.　(12.5)

UNIT-IV

Q8　(a) Describe Dynamic Host Configuration Protocol for Wireless Communication.　(12.5)

(b) Explain Advantages and Disadvantages of Indirect TCP and Snooping TCP.　(12.5)

OR

Q9　(a) Explain Quality of Service in 3G.　(12.5)

(b) Compare Pure ALOHA and Slotted ALOHA. Use suitable diagram to explain the difference.　(12.5)

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