PVP 14

Code: EC7T5A

IV B.Tech - I Semester – Regular/Supplementary Examinations
October - 2018

WIRELESS COMMUNICATIONS AND NETWORKS
(ELECTRONICS & COMMUNICATION ENGINEERING)

Duration: 3 hours Max. Marks: 70

PART – A

Answer ***all*** the questions. All questions carry equal marks

11 x 2 = 22 M

1.

a) Expand FDMA and TDMA.
b) Define packet radio.
c) In X.25 protocol DTE, DCE, DSE are how many layered devices.
d) Write the two differences between wireless and fixed telephone networks.
e) Define Common channel signaling.
f) Point out the importance of Registration in Mobile IP scenario.
g) List out two wireless LAN applications.
h) Write any two functions of physical layer of OSI model.
i) List out the three types of access codes of Bluetooth.
j) Expand CDPD and WPAN.
k) Define ad hock network.

PART – B

Answer any ***THREE*** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) List out the features of FDMA. 8 M

   b) If a normal GSM time slot consists of 6 trailing bits, 8.25 Guard bits, 26 training bits and two traffic burst of 58 bits of data, find the frame efficiency. 8 M

3. a) Analyze the basic block diagram of cellular system. 10 M

   b) Compare circuit switching and packet switching. 6 M

4. a) Interpret the block diagram of ISDN. 8 M

   b) Define IP terminologies: Mobile node, Home address, Home network and Link. 8 M

5. a) Draw and explain wireless LAN configuration. 8 M

   b) Compose the diagram based differences between IEEE 802 protocol layers compared with OSI model. 8 M

6. Write about the architecture of GPRS. 16 M