Roll No……..….. **Total No. of Printed Pages: [1]**
Total No. of Questions: [09]

B.Tech. (ECE) (Semester – 6th)
COMPUTER COMMUNICATION NETWORKS
Subject Code: BECES-1602
Paper ID: [18111328]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:
(a) Explain the term 'data communication".
(b) Explain different data flow directions.
(c) Explain Wireless networking issues and standards.
(d) Write about different protocols and standards.
(e) Describe different layers of OSI model.
(f) Write about different handoff strategies.
(g) What are the goals and application of computer network?
(h) Differentiate between Circuit and Packet Switching.
(i) Explain speed and data security in WWAN.
(j) How does VANETs work.

Section – B **(5 marks each)**

Q2. What is the advantage of improving coverage and capacity in cellular systems.
Q3. What is the difference between wired LAN and wireless LAN?
Q4. Discuss various applications of Wireless sensor networks.
Q5. What are the advantages and disadvantages of various topologies?
Q6. Compare various cellular network features.

Section – C **(10 marks each)**

Q7. Discuss various WLAN protocols for Physical layers.
Q8. Explain in detail TCP/IP reference model.
Q9. What is the concept of Frequency reuse in Wireless system design.