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Total No. of Printed Pages: [1]

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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.