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Integrated Dual Degree B.Com-M.Com (Semester – 5th)

COMPUTER NETWORKS

Subject Code: BCSEO1010

Paper ID: [18OE410116]

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. What are the various types of computer networks?
- b. Explain WWW.
- c. Define QoS (Quality of Service).
- d. Differentiate between ARP and RARP.
- e. What are the various functions of Data link layer?
- f. Define Multiplexing.
- g. Define TCP (Transmission Control Protocol).
- h. What are the various types of transmission media?
- i. What is HTTP?
- j. What do you mean by Process to Process Communication?

Section – B

(5 marks each)

- Q2. Explain the structure of EMAIL with the help of diagram.
- Q3. Define the term multiplexing and its type in detail.
- Q4. Explain in detail the process of error detection and error correction performed by data link layer.
- Q5. Explain the structure of IPV4 briefly.
- Q6. Explain the various connection topologies in detail.

Section – C

(10 marks each)

- Q7. What is OSI model? Explain the function and services of each layer in detail.
- Q8. What is DNS? Explain how DNS Servers work.
- Q9. Explain the concept of switching in computer networks in detail.