COURSE CODE: DCAP406
COURSE TITLE: COMPUTER NETWORKS

Time Allowed: 3 hours   **Max. Marks: 80**

1. *This paper contains 10 questions divided in two parts on 1 page.*

2. Part A is compulsory.

3. In Part B (Questions 2 to 10), attempt any 6 questions out of 9. Attempt all parts of the selected question.

4. *The marks assigned to each question are shown at the end of each question in square brackets.*

5. *Answer all questions in serial order*.

6. The student is required to attempt the question paper in English medium only.

Part A

Q1. Write a short note on each of the following:

    a. Star Topology.
    b. Burst Error.
    c. Modulation.
    d. Layers of OSI Model.
    e. TCP.
    f. Flow control.
    g. Error Control.
    h. Unguided Medium.
    i. SMTP.
    j. Functions of Application Layer.   [10×2=20]

Part B

Q2. What are the different types of MAC protocols used in Data Link Layer? Write a detailed note on same.

Q3. Write a detailed note on OSI model. Draw a diagram to explain the model.

Q4. Write various congestion avoidance methods used in computer networks.

Q5. How is stop and wait ARQ protocol used to transmit data over channel? Use proper diagrams for same.

Q6. What is different design issues related with Network Layer? Write note on same.

Q7. Write the various application of computer network which make it useful in real life.

Q8. Write details of error detecting techniques VRC, LRC and CRC.

Q9. Write detailed note on QoS in Network Layer.

Q10. Write note on Public Switched Telephone Network and Mobile Telephone system.   [6×10=60]