Student Registration Number	
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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. Explain following: (a) Mesh Topology [2] (b) Single Bit Error vs. Burst Error [2] Multiplexing [2] (c) (d) ASK [2] (e) TCP vs UDP [2] (f) Flow control [2] [2] (g) Error Control (h) Guided Medium [2] Congestion Control [2] (i) (i) Functions of Application Layer [2] Part B Compare and contrast OSI Model with that of TCP/IP Model. [10] Q2. What are the different types of guided transmission medium available for Q3. communication? Write a detailed note on same. [10] Q4. Write various congestion control and avoidance methods used in computer networks. [10] Q5. How is sliding window protocol used to transmit data over channel? Use proper diagrams for same. [10] Q6. What is different design issues related with Network Layer? Write note on same. [10] Q7. Write the various application of computer network which make it useful in real life. [10] Q8. What is the different error detection techniques used in networks? Write elaborately about any two techniques taking examples. [10] Q9. Write short note on following: [10] a) E-Mail b) www Q10. Write note on Public Switched Telephone Network and Mobile Telephone system. [10]