M.TECH. DEGREE EXAMINATION
Model Question Paper - II
First Semester
Branch: Information Technology
Specialization: Network Engineering

MITNE 106-1 PROTOCOL ENGINEERING

(Regular – 2013 Admission onwards)

Time: Three hours   **Maximum:** 100 Marks

1. a. Discuss about protocol engineering phases.   (15 marks)

    b. What is CRC? Explain.   (10 marks)

OR

2. a. Describe the various functions of Protocols.   (15 marks)

    b. Explain the functions of each layer in TCP/IP reference model.   (10 marks)

3. a. Explain the salient features of SDL.   (15 marks)

    b. What is Alternating Bit protocol specification?   (10 marks)

OR

4. a. Describe TCP protocol specifications.   (8 marks)

    b. Explain the Sliding window protocol specifications.   (9 marks)

    c. What is BGP multi protocol label switching? Explain.   (8 marks)

5. a. Explain in briefly about Protocol verification using FSM.   (10 marks)

    b. What is deadlock? Explain.   (15 marks)

OR

6. a. Discuss the various protocol validation approaches.   (15 marks)

    b. What do you mean by Liveness property? Explain.   (10 marks)

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7. a. What is Protocol compilers? (7 marks)

  b. Discuss the various performance testing methodologies. (10 marks)

  c. Describe the code generation processes in SDL. (8 marks)

OR

8. a. Explain about various Protocol synthesis and implementation Methods. (15 marks)

  b. Describe Objects Based Approach To Protocol Implementation. (10 marks)