R15

Time: 3 hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks

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1.a)   Differentiate between TCP/IP reference model with ISO-OSI reference model.
  b)   What are the advantages of fiber optic cables? Explain with a neat sketch.   [8+7]

2.   What are various types of Error Detection methods? Explain about Cyclic Redundancy
     Check Error Detection Method with suitable example.   [15]

3.a)   Compare and contrast Pure ALOHA and Slotted ALOHA channel allocation Methods.
  b)   What are the advantages of using gateways?   [8+7]

4.a)   Differentiate between learning bridges and spanning tree bridges.
  b)   Write short note on repeaters, hubs and switches.   [7+8]

5.   How to find shortest path using Dijkstra algorithm? Explain with an example.   [15]

6.a)   Explain about Hierarchical Routing with an example.
  b)   What is congestion? Explain about congestion control policies.   [8+7]

7.   Explain about 3-way handshake mechanism for connection establishment and
     connection release.   [15]

8.a)   Compare and contrast TCP and UDP Protocols.
  b)   Write short note on SSH protocol.   [7+8]

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