

**TYBSCIT Semester – VI – INTERNET TECHNOLOGY Question paper**  
**APRIL-2014**

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- 1. Answer any two of the following. 10**
- a. Compare IPV4 with IPV6.
  - b. Describe the concept of subnetting & supernetting in IPV4 class full addressing technique.
  - c. Draw & explain a neat labelled diagram of IPV4 datagram header format.
  - d. Explain Dual stack & tunnelling in IPV6.
- 2. Answer any two of the following. 10**
- a. Describe 3 phases of communication between remote host & mobiles host.
  - b. What are the types of OSPF packets? What is the purpose of each one?
  - c. Short note on ARP.
  - d. Describe the problem of counting infinity or instability in RIP distance vector routing.
- 3. Answer any two of the following. 10**
- a. Explain TCP connection termination by 3 way handshaking concept.
  - b. What are the types of TCP timers? Explain the purpose of each one.
  - c. What are the services of UDP?
  - d. What is silly window syndrome? Explain the syndrome created by the sender and the receiver.
- 4. Answer any two of the following. 10**
- a. Explain SCTP association establishment.
  - b. What is domain? What are the types of domains in DNS? Explain.
  - c. What is a resolution in DNS? Explain.
  - d. Describe the DHCP client-server operations in the same & different network.
- 5. Answer any two of the following. 10**
- a. Describe NVT character set for option negotiation.
  - b. What is the concept of out-of-band signaling?
  - c. Explain the architecture of WWW.
  - d. List & explain the types of FTP commands.

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6. Answer ***any two*** of the following.

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- a. Explain video compression using JPEG.
- b. Describe Leaky bucket algorithm of traffic shaping.
- c. Write a short note on MIME.
- d. What are the services of internet audio & video communication? Explain the digitization process of video data.

