Examination, May 2019

Choice Based Grading System (CBGS) Internet Technology and Network Management

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. a) What is address resolution? Describe ARP and RARP with illustration.
 - What is datagram fragmentation? Why is datagram fragmentation not an issue in IPv6? How is this achieved?
- Discuss the issues and solutions related to the interworking of IPv6 and IPv4.
 - b) TCP transmission has three phases. Explain each in detail.

3. Describe the components, functionality and operation of the following with illustrations.

DNS

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- ii) R login
- How does TCP handle the flow control? Explain it with the help of diagram showing the status of sliding window at the different stages.

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b) What is subnet mask? Also discuss Role of loop back address.

Discuss functions of Router.

- b) Explain range of TCP/IP classes. What are the range of private IP addresses?
- 6. An organization has a class network 200.1.1 and wants to form subnets for four departments A, B, C, D will host as follows.

A: 72 Hosts B: 35 Hosts C:22 Hosts D:18 Hosts

- Give a possible arrangement of subnet masks to make this possible.
- ii) Suggest what the organization might do if department D grows to 34 hosts.
- 7. Explain in detail about the functionalities of SMTP specify the flow of SMTP commands between the client and the server.

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8. Write notes on:

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- HTTP
- ii) SNMP

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