

Code No: R32051

R10

Set No. 1

III B.Tech II Semester Supplementary Examinations, Dec - 2015

ADVANCED COMPUTER NETWORKS

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) With a detailed example explain how Choke Packets can be used in congestion control. [8]
b) With an example give a detail on Link State Routing. [7]
- 2 a) Discuss about Multicast, Local and Reserved addresses in IPv6. [8]
b) For the IP numbers given below: Identify the classes to which the following IP numbers belong to, show clearly which parts of the IP numbers are the network identity and which parts are the host identity and Calculate the number of hosts that can be assigned within each network. [7]
i. 122.34.45.133 ii. 12.12.12.12
iii. 192.0.233.26 iv. 126.123.16.87
- 3 a) Discuss the strategies devised by IETF for transition from IPv4 to IPv6. [8]
b) Explain about single-byte and multi-byte options available in IPv4 header. [7]
- 4 a) Compare TCP and UDP in detail. [8]
b) Explain connection establishment process in TCP. [7]
- 5 a) Explain the characteristics of flow that are considered in attaining QoS. [8]
b) Explain how Token Bucket technique can be used for traffic shaping. [7]
- 6 a) Give different steps that are followed by DNS resolver in lookup process. [8]
b) Discuss the architecture of WWW along with client side and server side issues. [7]
- 7 a) Discuss security issues in mobile networks. [8]
b) Elaborate on different MANET routing protocols. [7]
- 8 Discuss in detail about the features and issues of Computational grids. [15]

