

R09**Code: 9A05506**

B.Tech III Year I Semester (R09) Supplementary Examinations December 2015

COMPUTER NETWORKS

(Common to IT and CSE)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Discuss ISO/OSI reference model in detail.
(b) Briefly explain the components of a fiber optic cable with a neat sketch.
- 2 (a) Explain about the responsibilities of the lexical analyzer in the process of compilation.
(b) What is bit stuffing. If the bit string 0111111011111011110 is bit stuffed, what is the output of the string?
- 3 (a) Compare and contrast static and dynamic channel allocation methods.
(b) How Manchester and Differential encoding techniques are used?
- 4 (a) What is hierarchical routing? When it is used? State merits and demerits of hierarchical routing.
(b) Compare flow control and congestion control.
- 5 (a) Explain with a neat sketch, the working of DHCP.
(b) What is proxy ARP? Explain it in detail.
- 6 Draw and explain the TCP connection management finite state machine.
- 7 (a) Discuss in detail about the Static Web Documents.
(b) Give brief description about the role of webmail in world wide web.
- 8 (a) Explain one time pads with a suitable example.
(b) Discuss about the redundancy and freshness.
