

Code: 9A05506

R09

B.Tech III Year I Semester (R09) Supplementary Examinations June 2016

COMPUTER NETWORKS

(Common to CSE and IT)

Time: 3 hours Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain the characteristics of WAN. Why a WAN is required and what objectives are achieved by having a WAN?
 - (b) Write short notes on interfaces and services of ISO layers.
- 2 (a) Briefly explain about the data link layer design issues.
 - (b) Discuss about the simple protocol for a noisy channel.
- 3 (a) Explain how dynamic channel allocation in LANs and MANs are done.
 - (b) Compare and Contrast pure ALOHA and Slotted ALOHA.
- 4 (a) Explain multi destination routing and reverse path forwarding technique with examples.
 - (b) What is optimality principle?
- 5 (a) Write short notes on Classless Inter-Domain routing.
 - (b) Give brief description about the Network Address Translation.
- 6 (a) Give brief description about the TCP service model.
 - (b) Write general overview about the TCP Protocol.
- 7 (a) Discuss in detail about the DNS Name space.
 - (b) Write short notes on Resource Records.
- 8 (a) What are the basic elements of a product cipher? Explain them in detail.
 - (b) Explain the data encryption standard with a neat sketch.
