

SS**Code: 9A05506**

B.Tech III Year II Semester (R09) Supplementary Examinations December/January 2015/2016

COMPUTER NETWORKS

(Information Technology)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) What are the advantages of having layered architecture? Explain the layers of ISO-OSI reference model.
(b) Compare and contrast circuit switching and packet switching.
- 2 (a) Explain point to point protocol with frame format. Explain how it provides the facility through link control protocol and network protocol.
(b) Explain about the high level data link control.
- 3 (a) What is pure ALOHA and slotted ALOHA mention the advantages of slotted ALOHA?
(b) Explain about the Manchester encoding.
- 4 (a) Explain the congestion control methods on datagram subnets.
(b) With an example, explain multicast routing algorithm.
- 5 (a) Give brief description about the different types of networks.
(b) Write short notes on internetworking devices.
- 6 (a) What is meant by marshalling? Explain it in detail.
(b) Discuss in detail about the Real Time Transport Protocol stack with a neat sketch.
- 7 (a) What is the role of Simple Mail Transfer Protocol in the e – mail system? Explain in detail.
(b) Give brief description about POP3
- 8 Write short notes on the following:
 - (a) Advanced encryption standard.
 - (b) Quantum cryptography.
