

**Code: 9A05506**

**SS**

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

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- 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.

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