Code: 9A05506

B.Tech III Year II Semester (R09) Regular & Supplementary Examinations May/June 2015

COMPUTER NETWORKS

(Common to CSS and ECC)

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) Distinguish between the noisy channel and noise less channel protocols.
   (b) Explain CRC method for error checking with an example.

3 (a) Discuss about MAC addresses.
   (b) Explain about a bit-map collision free protocol.

4 (a) With an example explain hierarchical routing algorithm.
   (b) Briefly discuss about congestion control in virtual circuit subnets.

5 (a) Draw and explain the header format of IPv4.
   (b) List the various principles that are present in RFC 1958.

6 (a) Explain the frame format for RTP header.
   (b) Give brief description about the user datagram protocol.

7 (a) What is MOSPF? Explain its role in multicast back bone.
   (b) Explain some of the applications of multimedia.

8 (a) What are drawbacks of the DES algorithm?
   (b) Explain triple DES with an example.

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