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Total number of printed pages – 2

B. Tech
PEEC 4304

Sixth Semester Back Examination – 2015

COMPUTER NETWORK AND DATA COMMUNICATION

BRANCH (S) : AEIE, EC, EEE, ELECTRICAL, ETC

QUESTION CODE : M 401

Full Marks – 70

Time : 3 Hours

Answer Question No. 1 which is compulsory and any **five** from the rest.
The figures in the right-hand margin indicate marks.



1. Answer the following questions :

2×10

- (a) What is router or gateway ?
- (b) What are Unicast, Multicast, and Broadcast ?
- (c) Define Bandwidth and Latency.
- (d) What is Synchronous Time Division Multiplexing ?
- (e) What is Spread Spectrum ?
- (f) What is repeater ?
- (g) Define Signal to Noise Ratio.
- (h) What is Bluetooth ?
- (i) What is Load Balancing ?
- (j) What is RIP ?

P.T.O.

2. Explain about OSI Architecture with neat sketch on it. 10
3. Describe the different types of guided and unguided media with neat sketch. 10
4. Explain stop-and-wait ARQ with suitable example. 10
5. (a) Differentiate between Switching and Bridging. 5
(b) Draw the sketch of IPv4 packet header. 5
6. (a) What are Class A, Class B and Class C addresses ? 5
(b) Differentiate between ARP and RARP. 5
7. (a) Difference between IPv4 and IPv6. 5
(b) What is Multicast ? Explain about Multicast. 5
8. Write short notes any **two** of the following : 5x2
 - (a) Electronic Mail
 - (b) Client Server Model
 - (c) Socket Interface.

