AB-3205
Third Year B.Sc. (Electronics) (Sem. V)
Examination
March/April – 2015
Computer Networking
(Generic Elective for Electronics)

Time : 2 Hours] [Total Marks : 50
Instructions:
(1) Fill up strictly the details of signs on your answer book.

Name of the Examination : THIRD YEAR B.SC. (ELECTRONICS) (SEM. V)
Name of the Subject : COMPUTER NETWORKING
Subject Code No. : 3 2 0 5

Seat No.:

(2) Figures on the right indicate full marks.
(3) All symbols and abbreviations have their usual meaning.
(4) Non-programmable calculators are allowed.
(5) Q.1 is compulsory.
(6) Assume data if necessary.

1 Answer in short: 10
(a) What is multicasting?
(b) Which is an older of the two models, TCP/IP or OSI?
(c) What is the frequency range of radio wave and microwave?
(d) Draw a clean figure of coaxial cable and label it.
(e) Define Line Configuration and Link.

2 (a) Compare Bus, Star and Ring topology. 5
(b) Compare LAN, MAN, WAN with reference to Distance and protocol.

OR

2 (a) Draw and explain TCP/IP model with its schematic. 5
(b) Give the full forms of following protocols and define them: 5
(1) ICMP (2) IGMP (3) RARP
(4) UDP (5) SMTP

AB-3205] [Contd...
3 (a) Differentiate between Fibre Optic and Copper Wire.  
   (b) Explain check sum method of error detection. What kind of error is undetectable by this method?  

   OR

3 (a) Discuss ALOHA protocols.  
   (b) Classify Ethernet. Explain its architecture in detail.

4 (a) Explain 10BaseT, 10Base2 and 10Base5 cables in brief.  
   (b) What is CSMA? Explain different CSMA access modes.

   OR

4 (a) Explain Guided media and its different types.  
   (b) List various connectors and explain any two.

5 Write short notes: (ANY TWO)  
   (a) FDDI  
   (b) Token ring operation  
   (c) Characteristics of a network  
   (d) OSI model.