DG-3205
Third Year B. Sc. (Sem. V) (Electronics) Examination
March/April – 2016
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 : T.Y. B.Sc. (Sem. 5) (Electronics)
Name of the Subject : COMPUTER NETWORKING

(2) Figures on the right indicates 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 the frequency range of radio wave and microwave ?
   (b) Which is an older of the two models, TCP/IP or OSI ?
   (c) What is multicasting ?
   (d) What is unethical hacking ?
   (e) Define Line Configuration and Link.

2 (a) Discuss ALOHA protocols. 5
   (b) Classify Ethernet. Explain its architecture in detail. 5

   OR

DG-3205] 1 [Contd...
2 (a) Draw and explain TCP/IP model with its schematic. 5
   (b) Give the full forms of following protocols and define
       them.
       (i) ICMP
       (ii) IGMP
       (iii) RARP
       (iv) UDP
       (v) SMTP
3 (a) Differentiate between Fibre Optic and Copper wire. 5
   (b) Explain check sum method of error detection. What kind of error is undetectable by this method?

   OR

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

4 (a) Explain 10BaseT, 10Base2 and 10Base5 cables in brief. 5
   (b) What is CSMA? Explain different CSMA access modes. 5

   OR

4 (a) Explain Guided media and its different types. 5
   (b) List various connectors and explain any two. 5

5 Write short notes: (any two) 10
   (a) FDDI
   (b) Token ring operation
   (c) Tree, Mesh and Ring topology
   (d) OSI model.