



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)

<p>नीचे दर्शावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कपनी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : THIRD YEAR B.SC. (ELECTRONICS) (SEM. V)</p> <p>Name of the Subject : COMPUTER NETWORKING</p> <p>Subject Code No. : 3 2 0 5 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; margin-top: 10px;">Student's Signature</div>
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- (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. 5

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

- 3 (a) Differentiate between Fibre Optic and Copper Wire. 5
(b) Explain check sum method of error detection. What 5
kind of error is undetectable by this method?
- OR**
- 3 (a) Discuss ALOHA protocols. 5
(b) Classify Ethernet. Explain its architecture in detail. 5
- 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) Characteristics of a network
(d) OSI model.
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