



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)

नीचे दृष्टावेव निशानीवाणी विगतो उत्तरवही पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="T.Y. B.SC. (SEM. 5) (ELECTRONICS)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="COMPUTER NETWORKING"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="5"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="NIL"/>	<input type="text"/>
	Student's Signature

- (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.

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|---|---|----|
| 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

- 2 (a) Draw and explain TCP/IP model with its schematic. 5
 (b) Give the full forms of following protocols and define them. 5
 (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 ? 5
- OR
- 3 (a) Compare Bus, Star and Ring topology. 5
 (b) Compare LAN, MAN, WAN with reference to distance and protocol. 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) Tree, Mesh and Ring topology
 (d) OSI model.
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