



AC-3067
Second Year B. Sc. (Sem. IV) Examination
April / May – 2015
Applied Electronics : Paper - V
(Data Communication)

Time : 2 Hours]

[Total Marks : 50

Instruction :

<p>नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : SECOND YEAR B. SC. (SEM. IV)</p> <p>Name of the Subject : APPLIED ELECTRONICS : PAPER - V</p> <p>Subject Code No. : 3 0 6 7 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : □ □ □ □ □ □</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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- 1 Answer in brief: 8
- (a) Give the full form of following abbreviations:
- (1) FDM
 - (2) ARPA
 - (3) ISP
 - (4) TDM
- (b) What is a protocol?
- (c) What is the need for Checksum?
- (d) What is bandwidth?
- 2 (a) Explain the various types of networks. 8
- (b) With the help of diagrams show the simplified view of a portion of the Internet. 6
- OR**
- 2 (a) Explain the simplified communications model. 8
- (b) With reference to the Internet explain the following terminologies: CO, CPE, ISP, NAP, NSP POP. 6

- 3** (a) Discuss briefly the TCP/IP protocol architecture. **8**
(b) Diagrammatically enlist the various TCP/IP protocol interfaces. **6**

OR

- 3** (a) Explain why digital transmission is the preferred method of transmission of signals. **8**
(b) Differentiate between guided media and unguided media. **6**

- 4** Write short notes on : **(any two)** **14**
(1) TCP/IP Applications (SMTP, FTP and Telnet)
(2) Noise
(3) TIME DIVISION and FREQUENCY DIVISION MULTIPLEXING
(4) OSI layers.