



**AC-3073**  
**Second Year B. Sc. (Sem. IV) Examination**  
**April / May – 2015**  
**Electronics for CS : Paper - V**  
*(Data Communication)*

Time : 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 : ELECTRONICS FOR CS : PAPER - V</p> <p>Subject Code No. : 3 0 7 3 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : □ □ □ □ □ □</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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- 1 Answer in brief : 8
- (a) Give the full form of following abbreviations :  
(1) WAN, FDM  
(2) TCP/IP, TDM
- (b) What is a protocol?
- (c) What is DEMULTIPLEXING?
- (d) What is attenuation?
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- 2 (a) Explain the simplified communications model. 8
- (b) With the help of diagrams show the simplified view of a portion of the Internet. 6
- OR**
- 2 (a) Explain the various types of networks. 8
- (b) With reference to the Internet explain the following terminologies: 6  
CO, CPE, ISP, NAP, NSP POP.

- 3 (a) Discuss briefly the TCP/IP protocol architecture. 10
- (b) Diagrammatically compare TCP/IP and OSI protocols. 4
- OR**
- 3 (a) Explain the Nyquist Bandwidth and Shannon Capacity formula. 8
- (b) Differentiate between guided media and unguided media. 6
- 4 Write short notes on : **(any two)** 14
- (1) TCP header
- (2) OSI layers
- (3) Wireless Transmission
- (4) Noise
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