



**JB-3167**  
**Second Year B. Sc. (Sem. IV) Examination**  
**April/May – 2013**  
**Applied Electronics : Paper - V**  
*(Data Communication)*

Time : Hours]

[Total Marks : 50

**Instructions :**

(1)

<p>नीचे दशावेष निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : ☛ <b>SECOND YEAR B. SC. (SEM. 4)</b></p> <p>Name of the Subject : ☛ <b>APPLIED ELECTRONICS : PAPER - 5</b></p> <p>☛ Subject Code No. : <b>3</b> <b>1</b> <b>6</b> <b>7</b> ☛ Section No. (1, 2,.....): <b>NIL</b></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) Figure 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.

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|---|---|---|
| 1 | Answer in short :                       | 8 |
|   | (a) What is a 'Ethnic Hacking' ?        |   |
|   | (b) Give the full form of WAN and CDMA. |   |
|   | (c) Define a 'Server' in Networking.    |   |
|   | (d) What is Demultiplexing ?            |   |

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|---|---|---|
| 2 | (a) Define Network. Explain different networks with necessary examples. | 7 |
|   | (b) Differentiate between TCP/IP and OSI model.                         | 7 |

**OR**

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|---|--|---|
| 2 | (a) Enlist various Transmission Media and explain Guided Transmission Media in detail. | 7 |
|   | (b) Give a brief account of Asynchronous and Synchronous Transmission.                 | 7 |

- 3 (a) Distinguish between Analog and Digital Transmission. 7  
(b) Compare MAN, WAN and LAN. 7
- OR**
- 3 (a) What is multiplexing ? Explain TDM giving suitable 7  
examples.  
(b) Explain various Error Detection techniques in 7  
data transmission.
- 4 Write short notes : (any two) 14  
(a) Error Control/Flow Control  
(b) Wireless Transmission  
(c) Analog Data-Analog signals  
(d) Digital Data-Digital Signals.
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