



AD-3283

Third Year B. Sc. (Sem. VI) Examination

March/April – 2015

Electronics : Paper - 7

(Advance Communication Systems)

Time : Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कपनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="THIRD YEAR B. SC. (SEM. VI)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="ELECTRONICS : PAPER - 7"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="8"/> <input type="text" value="3"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	<input type="text"/>
	Student's Signature

- (2) Q. 1 is compulsory.
- (3) Figures at extreme right indicate full marks.
- (4) Draw figures/diagrams to support your answer.
- (5) Assume data, if required.

- | | | |
|---|--|---|
| 1 | Answer in brief : | 8 |
| | (A) What is quantization noise? | |
| | (B) State the advantages of optical fiber | |
| | (C) State Kepler's Law | |
| | (D) Define polar orbit | |
| 2 | (A) Discuss the various types of optical fibers in terms of index. | 8 |
| | (B) Explain the sample & hold circuit with the help of its schematic. Also state its applications. | 6 |

OR

- | | | |
|---|---|---|
| 2 | (A) Explain the various methods of pulse modulation. | 8 |
| | (B) Discuss the various types of losses in fiber optic cable. | 6 |

- 3 (A) Explain the photodetector system in fiber optic cables with the help of a block diagram. 8
- (B) Discuss the Kepler's law for a satellite orbiting around the earth. 6

OR

- 3 (A) Explain in brief the Wireless System and its features. 8
- (B) Discuss the cellular technology concept of a mobile communication. 6
- 4 Write short notes : **(ANY TWO)** 14
- (A) Linear versus non linear PCM codes.
- (B) Multiple Access Method
- (C) Any one companding method.
- (D) Geostationary Satellites.