



DRR-3283

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

March/April – 2016

Electronics : Paper - VII

(Advance Communication Systems)

Time : Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. 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 - VII"/>	<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 the term 'Total Internal Reflection'.

 - 2 (A) Discuss the various types of optical fibers in terms of index. 8
 - (B) Explain the sample and 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) Write a note on antenna look angles. 8
(B) Differentiate between Analog and Digital Transmission. 6
OR
- 3 (A) Explain the block diagram of the use of LED transmitter 8
for a fiber optic cable.
(B) How is digital transmission superior over analog 6
transmission ?
- 4 Write short notes : (ANY TWO) 14
(A) Satellite station keeping.
(B) Multiple Access Method.
(C) Any one companding method.
(D) Linear versus non linear PCM codes.
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