Third Year B. Sc. (Sem. VI) Examination
March/April – 2016
Electronics : Paper - VII
(Advance Communication Systems)

Instructions:
(1) Fill up strictly the details of signs on your answer book.

Name of the Examination: THIRD YEAR B. SC. (SEM. VI)
Name of the Subject: Electronics : Paper - VII

Subject Code No.: 3 2 8 3 Section No. (1, 2, ...) Nil

(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.

OR

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

[Contd...
(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 for a fiber optic cable. 8
(B) How is digital transmission superior over analog 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.