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) 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 - 7
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 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.

OR

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

AD-3283] 1 [Contd...
3  (A) Explain the photodetector system in fiber optic cables with the help of a block diagram.  
(B) Discuss the Kepler's law for a satellite orbiting around the earth.  

OR

3  (A) Explain in brief the Wireless System and its features.  
(B) Discuss the cellular technology concept of a mobile communication.  

4  Write short notes: (ANY TWO)  
(A) Linear versus non linear PCM codes.  
(B) Multiple Access Method  
(C) Any one companding method.  
(D) Geostationary Satellites.