DRR-3286
Third Year B. Sc. (Sem. VI) Examination
March / April – 2016
Electronics : Paper-X
(Applications of Communications Systems)

Time : Hours [Total Marks : 50]

Instructions :

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

(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) Write the full name of IF, SHR, TWT, RADAR.

(B) Which types of scanning we use in TV ? which one is best ?

(C) Compare various types of FM demodulator.

(D) What is detection in communication ?

2 (A) Draw the block diagram of TRF receiver explain each block in detail. 8

(B) Why we use diode in detector circuit ? 3

(C) Explain term AGC. 3

OR

DRR-3286] 1 [Contd....
2  (A) Draw the block diagram of TV Receiver and explain each block.

(B) What is synchronization in TV? Explain in brief.

3  (A) State the application of Radar Range Equitation and derive it.

(B) Explain basic of color TV in brief.

(C) A stationary CW RADAR transmits at frequency of 5 GHz. Calculate the Doppler frequency seen by it when the target has a radial velocity of 110 km/hr.

OR

3  (A) Discuss working and function of Magnetron.

(B) Explain Scanning systems of TV in detail.

4  Write Short Notes: (Any Two)

(A) SHR

(B) Pulsed RADAR System

(C) Vestigial Side Band system

(D) Multi cavity Klystron.