S.B. Roll No.....

COMMUNICATION SYSTEM-I

4th Exam/ECE/ETV/ECE-II/6127/2361/Nov' 2016

Duration : 3 Hrs **M. Marks : 75**

SECTION – A

Q1. Attempt all Questions **15x1=15**

(a) The electromagnetic signals are also called…….. .
(b) Another name for varactor diode is ……..
(c) Armstrong is …… FM generation method.
(d) The FM receiver operates on the principle of …….. .
(e) The frequency range for the MW band is from …… to ……..
(f) The artificial boosting of higher modulating frequencies is called as ……..
(g) Light has wavelength in the range of …… to ……..
(h) Fading means the variation and fluctuation in the …… at the receiver.
(i) The inner most layer in Optical fiber cable is ……..
(j) …… orbit is used to put the remote sensing satellites.
(k) The standard IF value for AM receiver is …… .
(l) A unipole is also known as ……
(m) UHF stands for ……..
(n) The unit of illuminance is the …….. .
(o) AGC stands for ……..

SECTION – B

Q2. Attempt any five Questions **5x6=30**

(a) Explain SSB transmitter using filter method.
(b) Explain the working of AGC.
(c) Draw a block diagram of super heterodyne radio receiver.
(d) Write the advantages of optical fiber communication system.
(e) Describe satellite communication system with block diagram.
(f) Explain refraction, reflection and interference.
(g) What is telemetry, trading and command system with circuit diagram?

SECTION – C

Q3. Attempt any three Questions **3x10=30**

(a) Explain the block diagram of communication system and also write the applications of communication system.
(b) Compare ground, sky and space wave propagation.
(c) Explain the construction and working of yagi-uda antenna with circuit diagram, also write the advantages and its applications.
(d) With the help of block diagram explain the operation of AM transmitter.
(e) Explain various types of losses in an optical fiber in detail.