

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2017
(Sixth Semester)

Branch- ELECTRONICS

ELECTRONIC COMMUNICATION - II

Time: Three Hours

Maximum: 75 Marks

SECTION-A (20 Marks)

Answer ALL questions •

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Define aspect ratio.
- 2 What are the types of scanning?
- 3 Name the basic application of satellite communication system.
- 4 What characteristics do the different orbits?
- 5 Write a note on the effect of NOISE in communication system.
- 6 What does the function of antenna fulfill?
- 7 What is the main advantage of tapered fibre?
- 8 Write a note on mdno mode fibre.
- 9 List the three types of services provided by GSM.
- 10 What do you mean by VLR? .

SECTION - B (25 Marks!)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a With necessary diagram, explain the principle of interlaced scanning.
OR
b Write a short note on the following (i) HDTV (ii) 3DTV.
- 12 a Briefly describe, how TDM multiplexing is achieved.
OR
b Describe some of the circuit likely to be found aboard an VS AT satellite.
- 13 a With diagram, describe the motion of the antenna beam in antenna scanning pattern. ,
OR
b What are the factory influencing the band width of a radar receiver? *
- 14 a Briefly discuss the factors governing losses in fibers.
OR
b Sketch an attenuation - versus - wave lengths diagram for optical fibers and briefly explain.
- 15 a Explain briefly the working of network switching sub system.
OR
b Discuss about GSM channel organization.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Draw the block diagram of PAL receiver and explain each block.
- 17 Explain in detail about MSAT system.
- 18 Draw the block diagram of pulsed radar system and explain each block.
- 19 Explain the fiber cabling and construction techniques.
- 20 Draw the architecture of GSM and explain the function of each block.