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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018

(Fifth Semester)

Branch - ELECTRONICS

ELECTRONIC COMMUNICATION -1

Time: Three Hours Maximum: 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks $(10 \times 2 = 20)$

- 1 Define Noise.
- Write note on Modulation.
- What are the SSB Filters?
- 4 Write the power distribution.
- 5 What is meant by angle modulation?
- 6 Define Noise suppression.
- 7 What is Tracking?
- 8 Write any two FM Discriminator characteristics.
- 9 Expand PAM.
- 10 Define PSK.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks $(5 \times 5 = 25)$

11 a Write short notes on Ionospheric layer.

OR

- b Explain the electromagnetic spectrum.
- 12 a Elucidate the mechanical filters.

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- b Describe the SSB demodulation.
- 13 a Draw the FM generator and explain it.

OR

- b What is De-emphasis? Explain in detail.
- 14 a Write short notes on Mixer.

OR

- b Explain the operation of Diode detector.
- 15 a W'hat is meant by PWM? Explain it.

OF

b Write short notes on Quantization.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry EQUAL Marks $(3 \times 10 = 30)$

- Explain in detail about the communication systems.
- 17 Describe the phase shift SSB transmission.
- Draw and explain the PLI. FM Transmitter.
- 19 Elucidate the PEL Demodulator.
- 20 Explain the working principle of QPSK.

Z-Z-Z

END