

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(Third Semester)

Branch - **ELECTRONICS**

ELECTRONIC CIRCUITS

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

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

- 1 What is a rectifier?
- 2 Define ripple factor.
- 3 Mention the applications of amplifiers.
- 4 List the advantages of direct coupled amplifier.
- 5 What is a power amplifier?
- 6 Define the load power of the push pull amplifier.
- 7 What is meant by positive feedback amplifier?
- 8 What is the advantage of negative feedback amplifier?
- 9 Mention the different types of multivibrators.
- 10 List the uses of Schmitt trigger.

SECTION - B (25 Marks!)

Answer **ALL** Questions

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

- 11 a Explain the half wave rectifier.
OR
b Explain the working of inductor filter.
- 12 a Write a short note on direct coupled amplifier.
OR
b Explain the working of CE amplifier.
- 13 a Draw and explain the working of push pull amplifier circuit.
OR
b With a circuit explain the working class B amplifier.
- 14 a Write a short note on negative feedback amplifier.
OR
b Explain the working of voltage series feedback amplifier.
- 15 a Explain how the oscillations are generated in a Colpitt's Oscillator.
OR
b Explain the working bistable multivibrator.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Explain the working of IC regulated power supply with diagram.
- 17 Explain the various biasing of the transistor amplifier.
- 18 Discuss the working of Class B amplifier with neat diagram.
- 19 Describe the operation of current series and shunt feedback amplifier.
- 20 Explain the monostable and astable multivibrator.

Z-Z-Z

END