

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(Fourth Semester)

Branch - **VISUAL COMMUNICATION (ELECTRONIC MEDIA)**

BASICS OF SOUND OPTICS & ILLUMINATION ENGINEERING

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10x2 = 20)

- 1 Wavelength.
- 2 Frequency.
- 3 Noise.
- 4 Tempo.
- 5 Resonance.
- 6 Distortion.
- 7 Concave.
- 8 Prisms.
- 9 Efficiency.
- 10 Color temperature

SECTION-B (25 Marks)

Answer **ALL** Questions

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

- 11 a What is sound and how does it travels?
OR
b Explain different types of sound waves with examples.
- 12 a Discuss the decibels.
OR
b What is the difference between music and noise?
- 13 a List out the characteristics of sound aesthetics.
OR
b Give a note on sound intensity.
- 14 a Explain Lens, Concave, Convex.
OR
b Write a note on lens Hare.
- 15 a Describe illumination basics.
OR
b Explain international colour & light standards.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Elaborate the basic theory of sound.
- 17 Illustrate and explain the dba,c,u,v-log theory,
- 18 Comment on ;Loudness, Resonance, Vibrations and Pitch.
- 19 Discuss calculation of focal length.
- 20 Write a detailed note on types of lighting.