

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2019

(Si*thr Semester)
Fourth

Branch- VISUAL COMMUNICATION (ELECTRONIC MEDIA)

BASICS OF SOUND OPTICS AND ILLUMINATION ENGINEERING

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

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

- 1 Musical note.
- 2 Vacuum.
- 3 Rhythm.
- 4 Tempo.
- 5 Loudness.
- 6 Vibrations.
- 7 Convex.
- 8 Lens flare.
- 9 Wave.
- 10 Hot spots.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a What is the Speed of Sound and how is it measured?
OR
b Name the measure of sound and the way to calculate it.
- 12 a Explain pink and white noise.
OR
b Elaborate on the Aesthetics of sound.
- 13 a Write notes on Standing Waves.
OR
b Explain Pitch distortion.
- 14 a What are the salient features of Optic theory?
OR
b List the uses of optical engine - prisms.
- 15 a Write a brief note on illumination theory.
OR
b Explain convergence of light.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Write a detailed note on Sound designing.
- 17 Write an account on octave and musical note.
- 18 What is sound intensity? How is it handled in the studio while recording?
- 19 Discuss the basics of optic theory.
- 20 How is colour temperature calculated? Explain how are they both related?.