

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023
(Third Semester)

Branch – VISUAL COMMUNICATION (ELECTRONIC MEDIA)

AUDIO PRODUCTION TECHNIQUES

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 Which audio effect is commonly used to reduce background noise and create a cleaner audio signal?
(i) Delay (ii) Phaser
(iii) Reverb (iv) Noise gate
- 2 What is the primary purpose of a pop filter in audio recording?
(i) To add warmth to the sound (ii) To enhance stereo imaging
(iii) To reduce plosive sounds in vocals (iv) To eliminate background noise
- 3 Which type of microphone is most suitable for recording vocals in a studio setting due to its sensitivity and clarity?
(i) Dynamic microphone (ii) Large-diaphragm condenser microphone
(iii) Shotgun microphone (iv) Ribbon microphone
- 4 When applying compression to an audio signal, which parameter controls the amount by which the signal exceeds the threshold is reduced?
(i) Attack (ii) Ratio
(iii) Release (iv) Gain
- 5 What is the term for the practice of adjusting the left-to-right balance of an audio signal within the stereo field?
(i) Equalization (ii) Mixing
(iii) Panning (iv) Modulation

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a Describe the term “dynamic range compression” in audio production.
OR
b Analyze the purpose of equalization (EQ) in audio production.
- 7 a Describe the factors one should consider when choosing a microphone for a specific recording task.
OR
b Explain the difference between a condenser microphone and a dynamic microphone.
- 8 a Narrate the role of reverb in audio production. Explain the difference between natural and artificial reverb.
OR
b Analyze the differences between analog and digital audio recording, including their advantages and disadvantages.

Cont...

- 9 a Explain the concept of panning in audio mixing.
OR
b Describe the concept of "gain staging" in audio recording and its importance.
- 10 a Compare and contrast MIDI recording and audio recording in the context of music production.
OR
b Narrate the primary functions of a compressor in audio production, and how does it affect the dynamics of a sound source?

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a Elucidate the importance of DAW with its usage in terms of recording, editing and producing audio files.
OR
b Explicate the usage of VST processors in audio post production
- 12 a Categorize and brief on the following term in audio production
i) Limiter ii) Expander iii) Gate
OR
b Predict the role of Audio interface in audio production signal flow
- 13 a Define the "four-to-one" rule in microphone placement, and why is it important when using multiple microphones?
OR
b Describe the steps involved in setting up a basic home recording studio, including essential equipment and their functions.
- 14 a Enumerate the roles and responsibilities of a Radio station head and Radio jockey.
OR
b Elucidate the Do's and Don'ts while performing an outdoor recording session.
- 15 a Interpret the importance of creating a radio programme in bringing a change on society.
OR
b Categorize the type of radio audience and depict the importance of understanding it while creating radio talks.

Z-Z-Z

END