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Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – M.Sc.(AM)-2025

Course Name – Sound Designing for Cinema

Course Code - MMM27501 (T)

(Semester II)

Full Marks : 40

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 10=10

1. Choose the correct alternative from the following :

(i) Choose the Human audible range.

a) 20 Hz to 20000 Hz

b) 20 MHz to 20000 MHz

c) 20 GHz to 20000 GHz

d) 200 Hz to 20000 Hz

(ii) Choose which Sound below 20 Hertz.

a) Sub sonic

b) Ultrasonic Sound

c) Super sonic

d) Infrasonic Sound

(iii) Distinguish which type of wave does sound propagate in air medium.

a) Longitudinal

b) Transverse

c) Both Longitudinal and Transverse

d) None

(iv) Select which of the following records the changes in recorded signal's amplitude over the duration of recording.

a) Audio Waveform

b) Audio Spectrum

c) Audio Wave

d) None

(v) Identify which Volume of Sound is measured in:

a) Decibel

b) Frequency

c) Amplitude

d) None

(vi) Choose what travels faster than the speed of sound.

a) Subsonic objects

b) Super sonic objects

c) Infrasonic

d) Ultrasonic

(vii) Select which of the following Quantization using 16 Bit results in possible Amplitude levels.

a) 256

b) 65536

c) 44100

d) None

(viii) Choose what can be defined as the maximum displacement of a particle of sound from its mean or equilibrium position.

a) Wavelength

b) Decibel

- c) Amplitude d) Frequency
- (ix) Choose the number of samples of audio sampled per second, measured in Hz or kHz.
- a) Bit Depth b) Sample Rate
- c) Wavelength d) Time Period
- (x) Choose which of the following might be considered professional sampling rates and bit depths?
- a) 16 bits 44.1 kHz b) 24 bits 96 kHz
- c) 12 bits 32 kHz d) 24 bits 192 kHz

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Define Diegetic sound. (3)
3. Define Trans Diegetic Sound. (3)
4. Explain Bit Depth. (3)
5. Explain Effects controls. (3)
6. Explain Object sound - Foley. (3)

OR

Explain Master track. (3)

Group-C

(Long Answer Type Questions)

5 x 3=15

7. Describe the quality of a good mix. (5)
8. Write the basic difference between working principle of analog and digital recording. (5)
9. Explain the way sound was optically recorded on films for synchronisation. (5)

OR

Discuss sound effects, music, silence. (5)

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