BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Sc.(MSJ)-Hons-2020
Course Name – Sound Basics and Editing
Course Code - GEMM301
(Semester III)

Full Marks : 60

Time : 2:30 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 15=15

1. Choose the correct alternative from the following :

(i) Identify Sound below 20 Hertz

   a) Sub sonic
   c) Super sonic
   b) Ultrasonic Sound
   d) Infrasonic Sound

(ii) Select which type of wave does sound propagate in Solid medium?

   a) Longitudinal
   c) Both Longitudinal and Transverse
   b) Transverse
   d) None

(iii) Define 20 Hz to 20000 Hz sound

   a) Ultrasonic Sound
   c) Human Audible range
   b) Infrasonic Sound
   d) Bata audible range

(iv) Identify the term for a region of low air pressure in a sound wave?

   a) Compression
   c) Intonation
   b) Rarefaction
   d) Dissonance

(v) Identify why Infrasonic Sound is used

   a) Seismic forecasting
   c) Intonation
   b) Medical diagnostics
   d) Rainfall forecasting

(vi) Indicate which of the following is true about Non – Linear Editing?

   a) It is digital Editing
   c) Intonation
   b) Edit points are accessed randomly
   d) All are correct

(vii) Indicate the number of digital snapshots taken of an audio signal per second.

   a) Bit Depth
   c) Intonation
   b) Frequency
   d) Sample Rate

(viii) Indicate which type is Shotgun Microphone

   a) Unidirectional
   c) Intonation
   b) Omnidirectional
   d) Bidirectional

(ix) Choose which of the following Pulse Code Modulation Method was developed at Bell Lab for voice coding in 1970?

a) LPCM

b) DPCM

c) Intonation

d) None

(x) Choose the device that converts energy from one form to another.

a) Mixer

b) Sound Card

c) Intonation

d) None

(xi) Choose the device used for converting Acoustic Energy into Electrical Signal.

a) Microphone

b) Loud Speaker

c) Intonation

d) Grinder

(xii) Choose the device used for converting Electrical Signal into Acoustic Energy.

a) Microphone

b) Loud Speaker

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d) Grinder

(xiii) Choose full form of CODEC

a) Coding – Decoding

b) Compression Deciding

c) Intonation

d) None

(xiv) Choose Microphone is made for recording sound from Solid medium?

a) Lavalier

b) Contact

c) Intonation

d) None

(xv) Choose electronic amplifier that converts a weak electrical signal into an output signal strong enough to be noise-tolerant and strong enough for further processing.

a) Loudspeaker

b) Microphone

c) Intonation

d) Sound Card

Group-B
(Short Answer Type Questions)
3 x 5=15

2. Explain sample rate   (3)
3. Explain markers   (3)
4. Define Sync sound.   (3)
5. Discuss Non-destructive Sound editing   (3)
6. Explain Master track   (3)

OR

Explain the use of Foley   (3)

Group-C
(Long Answer Type Questions)
5 x 6=30

7. Explain Multitrack Session   (5)
8. Define Analog and Digital Audio   (5)
9. Explain Pulse Code Modulation   (5)
10. Explain waveform editor   (5)
11. Explain the difference between Diegetic and Non Diegetic Sound (5)
12. Discuss Audio restoring techniques   (5)

OR

Discuss Time and pitch effects   (5)

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