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Barasat, Kolkata -700125

Term End Examination 2022

Programme – B.Sc.(MSJ)-Hons-2020/B.Sc.(MSJ)-Hons-2021

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 30=30

1. Choose the correct alternative from the following :

- (i) Defined as the number of complete oscillations or vibrations in a second performed by a particle of sound in the path of the wave is called
 - a) Wavelength
 - b) Sample Rate
 - c) Frequency
 - d) None
- (ii) Identify 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
- (iii) Identify Sound below 20 Hertz
 - a) Sub sonic
 - b) Ultrasonic Sound
 - c) Super sonic
 - d) Infrasonic Sound
- (iv) Distinguish AM _____
 - a) Amplitude Manipulation
 - b) Amplitude Motion
 - c) Amplitude Modulation
 - d) None
- (v) Select which of the following sentences are true?
 - a) Analog sound can be transmitted through Network
 - b) Analog sound cannot be transmitted through Network
 - c) Analog sound can be sometime transmitted through Network
 - d) None
- (vi) Choose The Volume level at the Point of Equilibrium =
 - a) 0 db.
 - b) 10 db.
 - c) -10 db.
 - d) None
- (vii) Distinguish a Waveform is depicted by a graph that shows:
 - a) Changes in recorded signals amplitude over the duration of recording.
 - b) Changes in playback speed over the duration of recording.
 - c) Changes in recorded signals amplitude over
 - d) None

playback speed.
(viii) Select what speeds greater than five times the speed of Sound are called

- a) Super-sonic
 - b) Sub-sonic
 - c) Hyper-sonic
 - d) Penta-sonic
- (ix) Select the term for a region of high air pressure in a sound wave?
- a) Compression
 - b) Rarefaction
 - c) Intonation
 - d) Dissonance

(x) Select the act of creating a vibration from the source of a sound wave

- a) Propagation
- b) Recreation
- c) Intonation
- d) Signal

(xi) Choose the term refers to the substance through which sound travels?

- a) Medium
- b) Solid
- c) Intonation
- d) Space

(xii) Identify On which of the following Sound does not propagate?

- a) Water
- b) Solid
- c) Intonation
- d) Vacuum

(xiii) Identify Waveform display x axis measures:

- a) Time
- b) Amplitude
- c) Intonation
- d) Wavelength

(xiv) Identify Waveform display y axis measures:

- a) Time
- b) Amplitude
- c) Intonation
- d) Wavelength

(xv) Select in which medium sound does not propagate

- a) Solid
- b) Liquid
- c) Intonation
- d) Vacuum

(xvi) Select the definition of Bit rate

- a) The number of bits per second that can be transmitted along a analog network.
- b) The number of bits per second that can be transmitted along a digital network.
- c) Intonation
- d) None

(xvii) Identify in ADPCM, stands for :

- a) Differential
- b) Directional
- c) Intonation
- d) Denotative

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

- a) Microphone
- b) Loud Speaker
- c) Intonation
- d) Grinder

(xix) ChooSethe device used for converting Electrical Signal into Acoustic Energy.

- a) Microphone
- b) Loud Speaker
- c) Intonation
- d) Grinder

(xx) Identify by which company Pro Tools developed .

- a) Sony
- b) Apple
- c) Intonation
- d) None

(xxi) Distinguish the following professional creates the realistic ambient sounds for film and video productions?

- a) Sound Engineer
- b) Sound Editor
- c) Intonation
- d) Foley Artist

(xxii) Choose the audio advertisement comprising a song

- a) Jingle
- b) Twinkle
- c) Intonation
- d) None

(xxiii) Distinguish the audio advertisement comprising of dialogues

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- a) Jingle
- b) Spot
- c) Intonation
- d) None
- (xxiv) Choose the first feature-length movie to employ a synchronized sound system
 - a) Don Juan
 - b) The Jazz Singer
 - c) Intonation
 - d) Fantasia
- (xxv) Choose first feature-length movie with synchronized dialogue
 - a) The Jazz Singer
 - b) Batman returns
 - c) Intonation
 - d) Fantasia
- (xxvi) Identify First use of DTS in the film
 - a) Jurassic Park
 - b) Batman returns
 - c) Intonation
 - d) Alam Ara
- (xxvii) Identify 1st use of Dolby digital in the film
 - a) Batman returns
 - b) Jurassic Park
 - c) Intonation
 - d) None of these
- (xxviii) Select the correct answer, Distinguish the clearest example of diegetic sound.
 - a) Character dialogue
 - b) Background Music
 - c) Intonation
 - d) None of these
- (xxix) Select the correct answer, Distinguish Music emanating from within in the film
 - a) Diegetic music
 - b) Background Music
 - c) Intonation
 - d) None of these
- (xxx) Indicate the term for volume of Sound _____.
 - a) Decibel
 - b) Frequency
 - c) Intonation
 - d) None of these

Group-B

(Multiple Choice Type Question)

3 x 10=30

2. Choose the correct alternative from the following :

- (i) Select which of the following Quantization using 16 Bit results in _____ possible Amplitude levels.
 - a) 256
 - b) 65536
 - c) 44100
 - d) None
- (ii) Choose the range of possible Amplitude levels of Sound are defined by:
 - a) Wavelength
 - b) Sample Rate
 - c) Bit Depth
 - d) None
- (iii) Select which of the following affects Bit depth
 - a) The Dynamic Range of Sound
 - b) Band width of the Audio
 - c) Sample Rate of Audio
 - d) Playback speed of Audio
- (iv) Choose which of the following stands for RMS:
 - a) Root Mean Square
 - b) Real Media Sound
 - c) Root Millimeter Square
 - d) Right Millimeter Square
- (v) Choose the process used to determine the average power output of the speakers over a long period of time.
 - a) RMS
 - b) SMS
 - c) MMS
 - d) None
- (vi) Select which of the following stands for uses a parabolic reflector to collect and focus sound waves onto a microphone receiver.
 - a) Shotgun Microphone
 - b) Shotgun Microphone
 - c) Parabolic Microphone
 - d) None
- (vii) Choose what is the Human audible range?

- a) 20 Hz to 20000 Hz
- c) 20 GHz to 20000 GHz

- b) 20 MHz to 20000 MHz
- d) 200 Hz to 20000 Hz

(viii) Select the correct answer, AM _____

- a) Amplitude Manipulation
- c) Amplitude Modulation

- b) Amplitude Motion
- d) None

(ix) Choose, in which Volume of Sound is measured in:

- a) Decibel
- c) Amplitude

- b) Frequency
- d) None

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

- a) Subsonic objects
- c) Infrasonic

- b) Super sonic objects
- d) Ultrasonic
