BRAINWARE UNIVERSITY

Course –MAMW

Sound Editing and Mixing (MMW202 / MMW203(BL))

(Semester – 2)

Time allotted: 3 Hours   **Full Marks: 70**

[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 Questions)   10 x 1 = 10

1. *Choose the correct alternative from the following:*

(i)   Which of the following is an interdisciplinary science that deals with the study of mechanical waves in gases, liquids, and solids?
      a. Acoustics   b. Sonography
      c. Foley   d.   None of these

(ii)   Which of the following statement is incorrect?
      a. Monophonic sound cannot be converted into Stereophonic sound.   b. Multiple tracks cannot have a single Channel in them.
      c. Sound cannot be Panned using Monophonic Speakers.   d. Both a and b.

(iii) Which of the following is not a Multi-track Sound editing software?
      a. Adobe Audition   b.   Nuendo
      c. Audacity   d.   Pro Tools

(iv)   Which of the following is a unidirectional microphone that must be pointed directly at its target sound source for proper recording?
      a. Lavaliere   b. Contact Microphone
      c. Shotgun Microphone   d. None of these.

(v)   Which of the following is a Sound editing technique?
      a. Cross-fade   b. Wavelength
      c. Timbre.   d. None of these

(vi)   A Source sound processed with a sound effect is called
      a. Dry Sound   b. Moist Sound
      c. Wet Sound   d. None of these

(vii)   Which of the following is a unit of measurement of loudness of sound?

    a. Hz   b. db

    c. KHz   d. fps

(viii) The maximum displacement suffered by a vibrating particle from its equilibrium is called

    a. Sample Rate   b. Wavelength

    c. Wave Height   d. Amplitude

(ix)   Which of the following statement is incorrect?

    a. Microphone is an input device.   b. Microphone is a transducer.

    c. Both a and b   d. None of these

(x)   Which of the following monitors the amplitude of the incoming and outgoing signal during the recording and playback?

    a. Current Time Indicator   b. Level Meter

    c. Channel   d. None of these

Group – B

<div align="center">(Short Answer Type Questions)   3 x 5 = 15</div>

Answer any *three* from the following

2. Describe the various application specific designs of Microphone. [5]
3. Explain the various system designs of a Loudspeaker. [5]
4. What is the role of a Sound Editor? [5]
5. Distinguish between Lossy and Lossless Audio Compression techniques. [5]
6. Discuss about the characteristics of Sound. [5]

Group – C

<div align="center">(Long Answer Type Questions)   3 x 15 = 45</div>

Answer any *three* from the following

7. (a) What is meant by Sound Editing? [5]
    (b) Differentiate between Analogue Sound and Digital Sound. [10]

8. (a) Write short notes on:
      (i) Frequency
      (ii) Amplitude
      (iii) Wavelength [9]
    (b) Compare between Waveform Display and Spectral Display. [6]

9. (a) Differentiate between Destructive Editing and Non-destructive editing. [6]
   (b) Compare between Insert Silence, Solo and Mute options. [9]
10. (a) What is Bit Depth of Sound? [4]
   (b) What do you mean by Sample Rate? [5]
   (c) Describe the process of conversion of Analogue Sound to Digital Sound. [6]
11. (a) Define Sound. [2]
   (b) What is a Sound Wave? [2]
   (c) Describe the Propagation of Sound. [5]
   (d) How is a Digital Sound recorded? [6]