

**WORLD MISSION HIGH SCHOOL**

# **HOLIDAYS PACKAGE**

**LEVEL 5 MULTIMEDIA**

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**SECTION A: Attempt all questions****(55 marks)**

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**01.** Choose the correct answers:**(5marks)**

- a) If the frequency of sound is below 20Hz, then it is known as:
- i) Audible
  - ii) Infrasonic
  - iii) Ultrasonic
  - iv) None of the above
- b) Large amplitude of sound vibrations will produce:
- i) Feeble sound
  - ii) Shrill sound
  - iii) Loud sound
  - iv) Gruff sound
- c) Earthquake produces which kind of sound before the main shock wave begins?
- i) Ultrasound
  - ii) Infra sound
  - iii) Audible sound
  - iv) None of the above
- d) Which one of the following factors does determine the pitch of a sound?
- i) The amplitude of the sound wave
  - ii) The distance of the sound waves from the source
  - iii) The frequency of the sound wave
  - iv) The phase of different parts of the sound wave
  - v) The speed of the sound wave
- e) The \_\_\_\_ is defined as the number of cycles of a periodic wave occurring per unit time.
- i) Wavelength
  - ii) Period
  - iii) Frequency
  - iv) Amplitude

**02.** Define a sound reinforcement system.**(5marks)****03.** What is the difference between AD and DA audio converters?**(5marks)**

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**04.** Answer by true(**T**) or false(**F**) **(5marks)**

- a) Sound waves that humans can actually hear is between 0-20 Hz.
- b) Slow and big attack is types of attack envelope of sound
- c) The unit for frequency is hertz.
- d) Sounds may be generally characterized by pitch, loudness, and quality.
- e) Timbre is combination of fundamental frequency, harmonics, and overtones that give each voice, musical instrument differ from other.

**05.** What is the difference between mix balance and tonality? **(4marks)**

**06.** Differentiate audio fade in from fade out. **(4marks)**

**07.** Complete the following sentences using one of the following terms in brackets: **(5marks)**

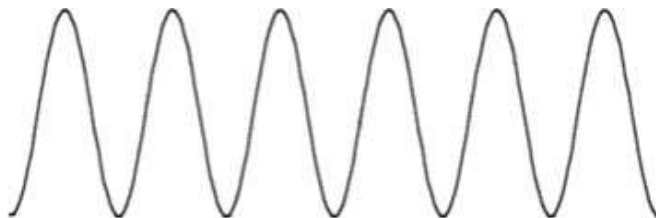
(normalization, fades, waveform, multitrack session, clipboard, noise reduction, sound remover, compression, plugins)

- a) A..... is an image that represents an audio signal or recording.
- b) ..... is the process of removing noise from an audio signal.
- c) The process of lessening the dynamic range between the loudest and quietest parts of an audio signal is called.....
- d) In..... , the editor panel provides several elements that help you to mix and to edit different tracks sessions.
- e) A much faster way to get your audio under control is to use the match volume, and this feature is called.....

**08.** Give any two (2) special effects which are used in audio editing. **(2marks)**

**09.** Give the types of sound wave. **(3marks)**

**10.** Identify the possible number of wave length (complete turn) found in the sound wave below. **(2marks)**



**11.** Differentiate audio input transducer from audio output transducer. **(4marks)**

**12.** How do you apply a compression effect to an audio recording in adobe audition? **(5marks)**

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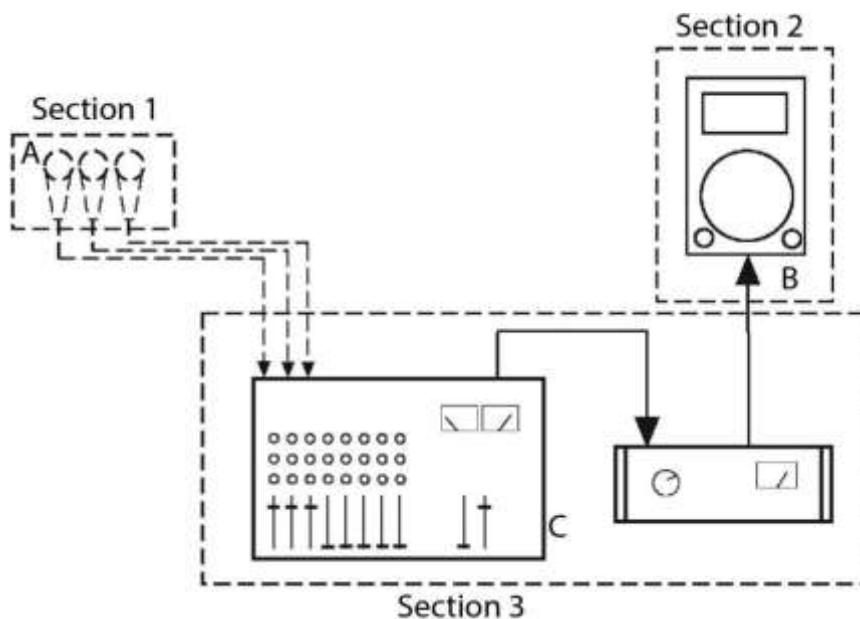
13. Show the steps of changing output hardware when you are editing in adobe audition. **(2marks)**
14. How do you apply audio normalization to the clips in adobe audition? **(3marks)**

**Section B: Attempt any three (3) questions**

**(30 marks)**

15. The figure below indicates PA Sound System:

**(10marks)**



- a) Name the section 1, Section 2 and Section 3;
  - b) Describe the use of instruments A, B and C.
16. Explain clearly any five (5) types of loudspeakers. **(10marks)**
17. a) How do hard knee and soft knee work when compressing an audio recording? **(10marks)**
- b) Differentiate parametric equalizer from the graphic equalizer.
18. Explain the following terms: **(10marks)**
- a) Bit rate;
  - b) Bit depth;
  - c) Sample rate;
  - d) Sampling rate;
  - e) Audio file format;
  - f) Justify why it is better to use lossy compressed formats rather than Lossless compressed formats.

19. What criteria would you consider to place indoor speakers for a good sound? **(10marks)**

**Section C: Attempt only one (1) question**

**(15 marks)**

20. a) What is an audio mixer? **(15marks)**
- b) Name the mentioned parts on the image below and discuss on the use of each part:



21. How would you export multitrack mix in adobe audition? **(15marks)**