



Victorian Certificate of Education 2005

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

STUDENT NUMBER

Letter

Figures									
Words									

VCE VET MUSIC INDUSTRY (Technical production)

Aural and written examination

Friday 18 November 2005

Reading time: 11.45 am to 12.00 noon (15 minutes)

Writing time: 12.00 noon to 1.30 pm (1 hour 30 minutes)

QUESTION AND ANSWER BOOK

Structure of book

<i>Section</i>	<i>Number of questions</i>	<i>Number of questions to be answered</i>	<i>Number of marks</i>
A	7	7	25
B	28	28	75
			Total 100

- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners and rulers.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or white out liquid/tape.
- No calculator is allowed in this examination.

Materials supplied

- Question and answer book of 12 pages.
- Answer **all** questions in the spaces provided.
- Audio compact disc will run continuously throughout Section A of the examination. The audio compact disc will run for 20 minutes 34 seconds.

Instructions

- Write your **student number** in the space provided above on this page.
- You may write at any time during the running of the audio compact disc, and after it stops.
- All written responses must be in English.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

SECTION A

All excerpts for Questions 1–4 will have unaffected sound then a signal processor applied (for example, dry vocal, then vocal with effects).

Question 1

What signal processor is being applied to this guitar excerpt?

1 mark

Question 2

Describe the ways in which the parameters have been set to the following two guitar excerpts.

a. _____

b. _____

2 marks

Question 3

Identify the two signal processors used on the following two vocal excerpts.

a. _____

b. _____

2 marks

Question 4

Identify and describe two editing processes that have been applied in the mixdown of the snare drum of the drum kit. (Note: editing processes may include compression, equalisation, pitch, modulation, reverb and delay.)

identify

describe

a. _____

b. _____

4 marks

Question 5

*This single excerpt will have the original recording then an altered recording.
The original and altered version will be repeated **three times**.
(For example: 1st original, altered, 2nd original, altered, 3rd original, altered.)*

The following **excerpt of music** has five modifications. Identify the five modifications and explain how they have been modified in the **mixdown**.

- a. _____

- b. _____

- c. _____

- d. _____

- e. _____

5 × 2 = 10 marks

Question 6

Identify the frequencies you hear from the choices below.
50 Hz, 125 Hz, 500 Hz, 1 kHz, 4 kHz, 8 kHz

- a. _____ b. _____ c. _____ d. _____

4 marks

Question 7

Identify the following wave types from the choices below.
sine, sawtooth

- a. _____ b. _____

2 marks

Total 25 marks

SECTION B

Question 1

a. Identify an octave above 200 Hz from the choices below.

220 Hz, 300 Hz, 400 Hz, 2000 Hz

b. What pitch letter is 440 Hz? _____

2 marks

Question 2

What are the terms for the following?

SPL _____ kHz _____

2 marks

Question 3

Identify the wave types for the following instruments.

flute _____ clarinet _____ trumpet _____

3 marks

Question 4

Describe each of the following sound editing functions.

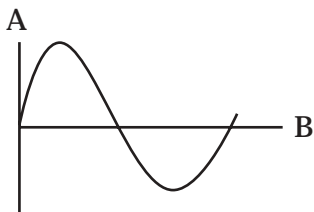
DeEsser _____

Noise Gate _____

4 marks

Question 5

The diagram provided is a representation of a digital sound wave. Label the A and B axes.



A _____

B _____

2 marks

Question 6

Explain the following terms.

amplitude _____

sibilance _____

2 marks

Question 7

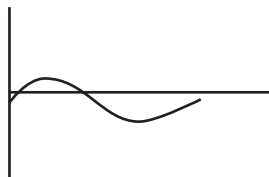
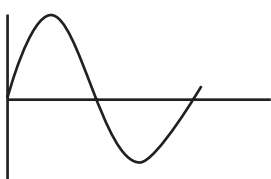
Identify an advantage and a disadvantage of digital and analogue recordings.

	digital recording	analogue recording
advantage		
disadvantage		

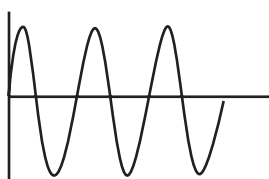
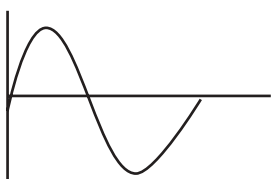
4 marks

Question 8

What do these two sine wave diagrams represent?



a. _____



b. _____

2 marks

Question 9

Identify the standard industry bit depth for CDs from the choices below.

4 bit, 8 bit, 16 bit, 32 bit

1 mark

Question 10

Describe one advantage and one disadvantage of higher sample rates.

advantage _____

disadvantage _____

4 marks

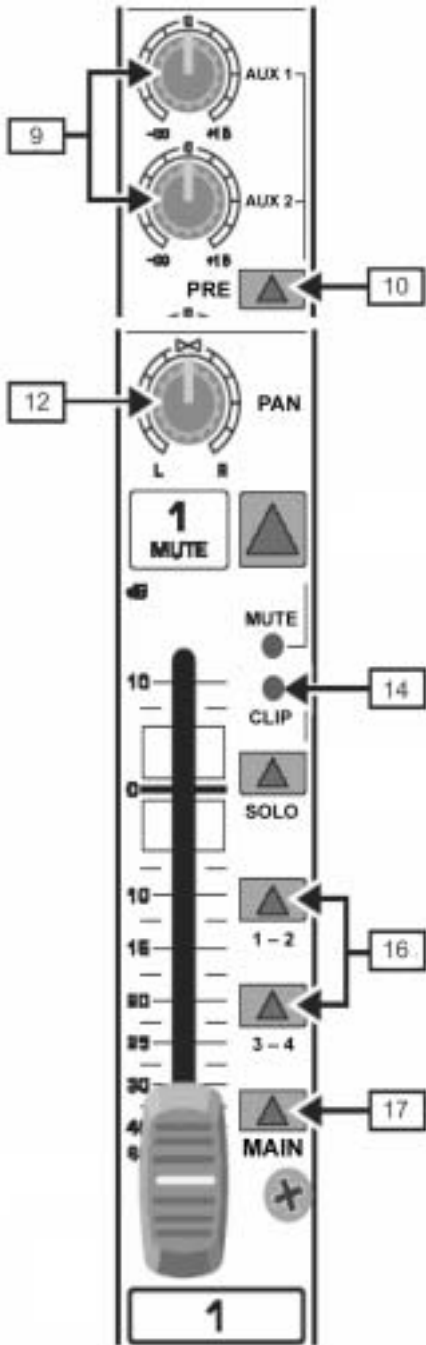
Question 11

Identify two copyright considerations when re-recording a song.

2 marks

Question 12

What is the function of each of the components 9, 10, 12, 14, 16, 17 on this mixing console?



9. AUX _____

10. PRE _____

12. PAN _____

14. CLIP _____

16. 1-2, 3-4 _____

17. MAIN _____

6 marks

Question 13

List two signal processor units that connect to auxiliary sends.

- a. _____ b. _____
- 2 marks

Question 14

a. What are sweepable mids?

b. Describe how sweepable mids are operated.

2 marks

Question 15

a. What is the function of a LOW pass filter?

b. Give an example of when a LOW pass filter could be applied.

2 marks

Question 16

a. Define 'phantom power'. _____

b. List two pieces of equipment that use phantom power.

- i. _____ ii. _____

1 + 2 = 3 marks

Question 17

When operating a reverb unit, explain what the following terms refer to.

mix _____

decay _____

2 marks

Question 18

Describe the function of compression and limiting.

compression _____

limiting _____

4 marks

Question 19

Explain the meaning of the term ‘dynamic range’, as it applies when setting the levels of a mixing console.

2 marks

Question 20

Identify the accepted safe decibel level as set down by the Victorian WorkCover Authority from the choices below.

85 db for 8 hrs, 100 db for 8 hrs, 115 db for 8 hrs, 120 db for 8 hrs

1 mark

Question 21

Describe what a 3 way speaker system consists of.

1 mark

Question 22

You have been asked to set up and operate a public address system (PA) for a rock band. List the following components in order of signal flow.

microphone, speakers, stereo graphic, poweramp, mixer, effects unit

Public address system	
1.	Microphone
2.	_____
3.	_____
4.	_____
5.	_____
6.	_____

5 marks

Question 23

Describe how you would control the levels of fold backs on stage using your mixing console.

1 mark

Question 24

Describe the process in equalising a room.

1 mark

Question 25

A cover band uses a minidisk sequencer as an extension of the band and they require a click to be sent to the drummer so that they do not play out of time. Describe the procedure so that the audience does not hear the click. (Note: the minidisk sequencer has click on the right channel and music on the left channel.)

2 marks

Question 26

Identify two important features of each of the following microphone types.

dynamic _____

condenser _____

4 marks

Question 27

You have been asked to engineer a vocal and acoustic guitar duo and the public address system is experiencing an occasional overpowering low resonance frequency. Describe three methods of overcoming this problem.

a. _____

b. _____

c. _____

3 marks

Question 28

You have recorded a vocalist in your studio, but after the session you listen back and find that the tracks are too dull. Before you make the vocalist redo the take, describe two methods for each of the following recording procedures that you could use to create a sharper and clearer sound to the track.

setup and equipment modifications

a. _____

b. _____

acoustic modifications

a. _____

b. _____

mixing procedures

a. _____

b. _____

6 marks

Total 75 marks

END OF QUESTION AND ANSWER BOOK

