

FOR OFFICIAL USE



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National
Qualifications
2025

Mark

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X851/76/01

Music Technology

WEDNESDAY, 14 MAY

14:30 PM – 15:30 PM



* X 8 5 1 7 6 0 1 *

Fill in these boxes and read what is printed below.

Full name of centre

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Town

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Forename(s)

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Surname

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Number of seat

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Date of birth

Day

--	--

Month

--	--

Year

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Scottish candidate number

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Total marks — 40

Attempt ALL questions.

In this examination you will listen to excerpts of music and answer questions on what you hear.

The text of each question is printed so that you can follow what the speaker says.

Listen carefully to the questions and to the music excerpts.

Some excerpts are played more than once. The number of times each excerpt is played is stated in each question.

Write your answers clearly in the spaces provided. Additional space for answers is provided at the end of this booklet. If you use this space, you must clearly identify the question number you are attempting.

Use **blue** or **black** ink.

Before leaving the examination room you must give this booklet to the Invigilator; if you do not, you may lose all the marks for this paper.



* X 8 5 1 7 6 0 1 0 1 *

Question 1

- (a) Listen to this excerpt and identify **two** terms from the list below which describe what you hear. The excerpt will be played **twice**.

2

World music	Harmonics
Modulation	Drum fill
Jazz funk	

Here is the excerpt for the first time.
Here is the excerpt for the second time.

- (b) Listen to a continuation of that excerpt. Describe **two** music features present which are typical of the genre/style.

2



Question 2

- (a) Listen to this excerpt and identify the genre. Give **two** reasons for your answer, one referring to a **music** feature and the other to a **technology** feature. The excerpt will be played **twice**.

3

Here is the excerpt for the first time.
Here is the excerpt for the second time.

Genre _____

Music feature _____

Technology feature _____

- (b) Listen to this excerpt and identify **one** term from the list below which describes what you hear. The excerpt will be played **twice**.

1

Rallentando	Time changes
Irregular time signature	Inverted pedal

Here is the excerpt for the first time.
Here is the excerpt for the second time.

[Turn over



Question 3

In this question, you will hear **two** recordings. For each one, you must identify the microphone placement fault in the recording and describe in detail how to correct it.

- (a) Listen to this excerpt of an acoustic guitar, recorded with a single condenser microphone with a cardioid polar pattern using a close mic'ing technique.

Identify the **microphone placement** fault and describe in detail how to correct it. You will hear this excerpt **twice**.

Here is the excerpt for the first time.

Here is the excerpt for the second time.

(i) Fault _____ 1

(ii) Correction _____ 1

You now have **one minute** to complete your answer.

- (b) Listen to this excerpt of a podcast. Identify the **microphone placement** fault and describe in detail how to correct it. You will hear this excerpt **twice**.

Here is the excerpt for the first time.

Here is the excerpt for the second time.

(i) Fault _____ 1

(ii) Correction _____ 1

You now have **one minute** to complete your answer.



Question 4

(a) You will hear **two** versions of sound design from a computer game.

The **first** version has no effects or processes.

The **second** version has reverb applied to the water sounds.

Listen to **version 1** with no effects or processes.

Listen to **version 2**. Identify the reverb settings used (1, 2 or 3) and justify your answer.

1

1

MIN MAX PRE DELAY MIN MAX TIME MIN MAX MIX MIN MAX BASS MIN MAX TREBLE

2

MIN MAX PRE DELAY MIN MAX TIME MIN MAX MIX MIN MAX BASS MIN MAX TREBLE

3

MIN MAX PRE DELAY MIN MAX TIME MIN MAX MIX MIN MAX BASS MIN MAX TREBLE

You now have **30 seconds** to complete your answer.

Reverb settings applied (1, 2 or 3)

Justification _____

[Turn over



Question 4 (continued)

- (b) Listen to this excerpt of a phaser effect on an electric piano. The mix control has been increased. Give two other controls commonly found on a phaser.

2

Control 1 _____

Control 2 _____



Question 5

This question is about intellectual property issues.

You will hear **two** excerpts of music.

The first excerpt ‘You Need Love’ was written by Willie Dixon for the blues artist, Muddy Waters in 1962.

The second excerpt ‘Whole Lotta Love’ was written and performed by Led Zeppelin in 1969.

Willie Dixon filed an intellectual property suit in 1985, claiming that ‘Whole Lotta Love’ plagiarised his song ‘You Need Love’.

The lawsuit was settled out of court for an undisclosed fee and Willie Dixon was added to the writing credits of ‘Whole Lotta Love’.

You now have **one minute** to read through the question.

You will hear the excerpts **twice** with a pause of **15 seconds** between playings.

Here is excerpt 1 for the first time.

Here is excerpt 2 for the first time.

Here is excerpt 1 for the second time.

Here is excerpt 2 for the second time.

You now have **two minutes** to complete your answers for parts (a), (b) and (c).

- (a) In addition to the melodic similarities, which other feature of the music in excerpt 2 could be a breach of intellectual property? 1

- (b) Give **two** examples of how intellectual property protection benefited Willie Dixon. 2

- (c) In addition to the writing credit, give **one** other example of how Led Zeppelin could have avoided a breach of intellectual property rights. 1

[Turn over



Question 6

This question features music from different genres/styles.

- (a) Listen to this excerpt and identify **two** terms from the list below which describe what you hear. The excerpt will be played **twice**.

2

Atonal	20 th 21 st century classical
Strophic	Electroacoustic
Pizzicato	

Here is the excerpt for the first time.
Here is the excerpt for the second time.

- (b) Listen to this excerpt of a choir. Describe in detail a suitable **stereo** mic'ing technique you would use to achieve a similar recording. Justify your choice.

3

You now have **two minutes** to complete your answer.



Question 7

This question relates to 20th and 21st century genres and innovators in technological developments.

(a) Choose a genre from the list and answer the question below.

Tick (✓) **one** box to indicate your choice.

Dance music

Electroacoustic

New wave

You will now have **three minutes** to answer the question.

A warning tone will sound **30 seconds** before part (b).

Give a detailed description of your chosen genre.

Your description must make reference to a **key innovator** and a **key technology**.

2

[Turn over



Question 7 (continued)

(b) Choose a technology from the list and answer the question below.

Tick (✓) **one** box to indicate your choice.

Electronic drum kit

Electric guitar (solid body)

Sampler

You will now have **three minutes** to answer the question.

A warning tone will sound **30 seconds** before the next question starts.

Name a **key innovator** of your chosen technology and describe **one** example of their **influence** on the development of this technology.

2



Question 8

Listen to this excerpt of an engineer working on mix elements of an audiobook.

A guide to the audio is laid out below. You will see that further information is required and must be inserted in the spaces.

There will now be a pause of **40 seconds** to allow you to read through the question.

The excerpt will be played **three** times, with a pause of **15 seconds** between playings.

In each playing, a voice will help guide you through the numbered sections.

Here is the excerpt for the first time.

Here is the excerpt for the second time.

Here is the excerpt for the third time.

Section	Description	
1.	The control/effect gradually applied to the narrator's voice is _____.	1
2.	There is a _____ EQ boost applied to the narrator's voice.	1
3.	_____ is applied to the panning of the 'woosh' sound effect.	1
4.	The tonality of the music is _____.	1
5.	The two-time domain effects added to the narrator's voice are _____ and _____.	2
6.	The engineer solos and loops the dragon's voice while adjusting the _____ control on a noise gate.	1

[Turn over



Question 9

Listen to this excerpt of music.

You must identify **five** music/production features present in the music from the ten listed below.

You will hear the music **three** times, with a pause of **15 seconds** between each playing.

You now have **one minute** to read through the question.

Auto-tuned vocals	Samples being triggered
Wah-wah electric guitar solo	Modulation to relative minor
Ascending arpeggios on synth strings	Harmonics
Change in tempo	Distorted bass guitar riff
Electric guitars panned left and right	Vocals in unison and octaves

Give the **five** features on the lines below.

5

Here is the music for the first time.

Here is the music for the second time.

Here is the music for the third time.

You now have **two minutes** to complete your answer.

[END OF QUESTION PAPER]



MARKS DO NOT
WRITE IN
THIS
MARGIN

ADDITIONAL SPACE FOR ANSWERS



* X 8 5 1 7 6 0 1 1 3 *

MARKS DO NOT
WRITE IN
THIS
MARGIN

ADDITIONAL SPACE FOR ANSWERS



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DO NOT WRITE ON THIS PAGE



* X 8 5 1 7 6 0 1 1 5 *

[BLANK PAGE]

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* X 8 5 1 7 6 0 1 1 6 *