



FOR OFFICIAL USE

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National  
Qualifications  
2024

Mark

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**X851/75/01**

**Music Technology**

MONDAY, 29 APRIL

9:00 AM – 10:00 AM



\* X 8 5 1 7 5 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)

--

Surname

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Number of seat

--

Date of birth

Day

--	--

Month

--	--

Year

--	--

Scottish candidate number

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**Total marks — 40**

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

Where excerpts are played more than once, the number of times each excerpt is played is stated in the question.

Attempt **ALL** questions.

Write your answers clearly in the spaces provided in this booklet. 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 5 0 1 0 1 \*

Total marks — 40  
Attempt ALL questions

Question 1

(a) Listen to this excerpt. Tick (✓) **one** box to identify the genre/style. 1

- Skiffle
- Swing
- Country
- Rock 'n' roll

(b) Listen to a continuation of the excerpt. In which decade was this music recorded? Tick (✓) **one** box. 1

- 1940s
- 1960s
- 1990s
- 2000s

(c) Listen to another excerpt from the same genre/style. Describe **two** key musical features which are typical of this genre/style. 2

1 \_\_\_\_\_  
\_\_\_\_\_

2 \_\_\_\_\_  
\_\_\_\_\_

(d) Listen to a section of that excerpt again. Identify the tonality. 1

\_\_\_\_\_



Question 1 (continued)

(e) As you listen to the excerpt:

(i) tick (✓) **one** box to describe the genre/style of the music, and

1

(ii) in the space below, give a reason to support your answer.

1

There will be a pause of **20 seconds** before the next question starts. Here is the music.

Electronica

Hip hop

Punk

60s pop

Reason \_\_\_\_\_

(f) Listen to a section of the same track again. Tick (✓) **one** box to identify the prominent process applied to the drum track.

1

Quantisation

Mute

Peak

Latency

[Turn over



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

Question 1 (continued)

(g) Listen to this excerpt.

Tick (✓) **one** box in COLUMN A to identify the style and **one** box in COLUMN B to describe the texture of the backing vocals.

2

The excerpt will be played **twice**.

Here is the excerpt for the first time.

Here is the excerpt for the second time.

COLUMN A

COLUMN B

Country

Homophonic

Musical

Polyphonic

Punk

Rock 'n' roll



Question 2

(a) Listen to this excerpt. Tick (✓) **one** box to identify the fault in the audio capture.

1

Glitch

Hum

Clipping

Popping and blasting

(b) Listen to this excerpt. Tick (✓) **one** box to identify the prominent scale.

1

Major

Minor

Chromatic

Whole tone

(c) Listen to this excerpt.

Identify the prominent effect applied to the synthesiser track.

1

You will hear the excerpt **twice**.

Here is the excerpt for the first time.

Here is the excerpt for the second time.

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[Turn over



\* X 8 5 1 7 5 0 1 0 5 \*

Question 3

(a) Listen to this excerpt and identify the genre/style of the music. 1

\_\_\_\_\_

(b) Listen to that excerpt again. Identify **two production** features that are typical of the genre/style. 2

1 \_\_\_\_\_

\_\_\_\_\_

2 \_\_\_\_\_

\_\_\_\_\_

(c) Listen to this excerpt. The recording includes the use of a vocal enhancer. Identify **two main processors** within a vocal enhancer. 2

1 \_\_\_\_\_

2 \_\_\_\_\_

(d) Listen to a different excerpt. Tick (✓) **one** box to identify the solo instrument. 1

Organ

Electric guitar

Drum kit

Synthesiser



Question 4

(a) Listen to this excerpt.

Tick (✓) **one** box in COLUMN A to identify the tonality and **one** box in COLUMN B to identify the time signature.

2

COLUMN A

COLUMN B

Major

3  
 4

Minor

4  
 4

Atonal

6  
 8

(b) Listen to the following excerpt of music. Tick (✓) **two** boxes to identify the music/production features present in the music from the five listed below.

2

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

You will now have **30 seconds** to read through the question.

Brass instruments play the melody

A synthesiser plays arpeggios

Snare drum with gated reverb

The backing vocals are in unison

There is a ritardando

Here is the music for the first time.

Here is the music for the second time.

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

[Turn over



\* X 8 5 1 7 5 0 1 0 7 \*

Question 4 (continued)

(c) Listen to this excerpt of a drum kit recording.

Describe how to record the snare drum using only **one** microphone.

You should specify the microphone type, polar pattern and placement.

(i) Type of microphone: \_\_\_\_\_ 1

\_\_\_\_\_

(ii) Polar pattern: \_\_\_\_\_ 1

\_\_\_\_\_

(iii) Microphone placement and distance: \_\_\_\_\_ 1

\_\_\_\_\_

You now have **2 minutes** to answer the question. A warning tone will sound **30 seconds** before the next question starts.

(d) Listen to this excerpt. Identify the vocal style. 1

\_\_\_\_\_



\* X 8 5 1 7 5 0 1 0 8 \*

**Question 5**

In this question you will hear theme music for a TV show.

You are asked to link the instruments with controls, effects or processes.

Listen to the full excerpt with controls, effects and processes applied.

You will now hear each instrument separately. Complete the table below using the following list of controls, effects and processes:

- chorus
- delay
- gated reverb
- hall reverb
- wah-wah.

Each control, effect or process is used only once.

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

Now listen carefully to the following and complete the table as you listen.

Drum kit (dry then wet)

Bass guitar (dry then wet)

Electric piano (dry then wet)

Synthesiser (dry then wet)

Electric guitar (dry then wet)

Instrument	Control, effect or process applied to instrument
Drum kit	
Bass guitar	
Electric piano	
Synthesiser	
Electric guitar	

5

[Turn over



**Question 6**

In this question an intellectual property case study will be read to you.  
Follow the text below. **There will be no music played.**

**Smar-Tee and 5K vs. Tunez**

**The Case:** Smar-Tee’s publishing company, 5K, filed a copyright infringement suit against the popular subscription streaming site, Tunez.

5K claimed that, although some of Smar-Tee’s biggest hits had been streamed billions of times, Tunez had only paid royalties for a fraction of these streams.

In court, Tunez stated that royalties were sometimes paid into a temporary fund when the owner of a song could not be confirmed.

5K claimed that Tunez should have been able to identify Smar-Tees’ songs as some of them had topped the streaming charts.

**The Outcome:**

Tunez was allowed to settle the case by paying the royalties owed without any further infringement charges.

You now have **5 minutes** to answer the questions below. A warning tone will sound **30 seconds** before the next question starts.

- (a) Explain in simple terms why 5K and Smar-Tee had a case against Tunez. 1

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- (b) Explain why intellectual property protection was important in this case. 1

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- (c) Tick (✓) **one** box to identify what Tunez should have done to prevent copyright infringement. 1

- Removed Smar-Tee’s music from their streaming service
- Paid royalties of all streams to the copyright owners
- Charged an extra fee to all subscribers who streamed Smar-Tee’s music
- Changed the writing credit for the affected streams



[Turn over for next question

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\* X 8 5 1 7 5 0 1 1 1 \*

Question 7

- (a) In this question you will hear **two** excerpts of Country music.

For each excerpt you should link an instrument/voice with an effect and a different instrument/voice with panning.

You may use the space provided for rough notes, but your **final answer must be written in the tables on the opposite page.** (Rough notes will not be marked.)

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

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

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.

Here is excerpt 1 for the third time.

Here is excerpt 2 for the third time.

Rough notes

Rough notes

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(Rough notes will not be marked)



Question 7 (a) (continued)

Final answer

<b>Excerpt 1</b>	<b>Excerpt 2</b>
Instrument/voice	Instrument/voice
Effect	Effect
<b>Excerpt 1</b>	<b>Excerpt 2</b>
Instrument/voice	Instrument/voice
Panning	Panning

4

(b) Listen to the **electric guitar** in this excerpt. Tick (✓) **one** box to describe what you hear.

1

- Arpeggio
- Whole tone scale
- Pitch bend

[END OF QUESTION PAPER]



MARKS DO NOT  
WRITE IN  
THIS  
MARGIN

ADDITIONAL SPACE FOR ANSWERS



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MARKS DO NOT  
WRITE IN  
THIS  
MARGIN

ADDITIONAL SPACE FOR ANSWERS



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