

X851/76/01

## **Music Technology**

MONDAY, 29 APRIL 1:00 PM - 2:00 PM



Fill in these boxes and read what is printed below.

Full name of cen	tre			Town						
Forename(s)		Suri	name				Nun	nber	of sea	at
Date of birt	h Month	Year	Scottish c	andidate r	numbe	r				

#### 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.





# Total marks — 40 Attempt ALL questions

MARKS DO NOT WRITE IN THIS MARGIN

## Question 1

Reggae	Wah-wah	
Harmonics	Soul	
Jazz funk		

(b)	Listen to the excerpt again. Identify <b>two</b> music features present which are typical of the genre/style.	2

MARKS	DO NOT
MARKS	WRITE IN
	THIS
	MARGIN

answer, one referring to a music feature	e and the other to a <b>technology</b>	3
Here is the excerpt for the first time. Here is the excerpt for the second time.		
Genre		_
Music feature		_
Technology feature		_
•		1
Strophic	Vocoder	
Tremolo	Portamento	
Here is the excerpt for the first time. Here is the excerpt for the second time.		_
	answer, one referring to a music feature feature. The excerpt will be played twice. Here is the excerpt for the first time. Here is the excerpt for the second time.  Genre	Here is the excerpt for the second time.  Genre

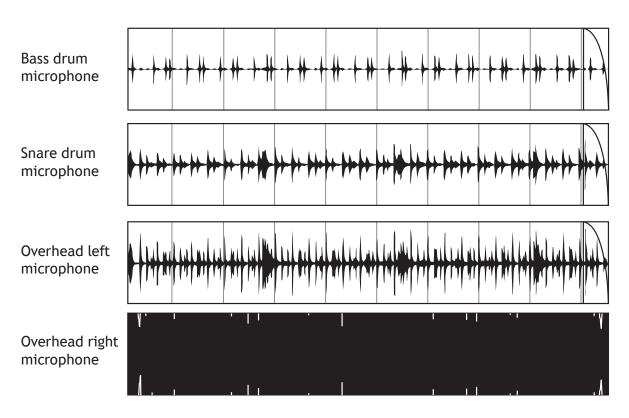


1

#### Question 3

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

(a) Listen to this excerpt of a drum kit recorded using four microphones and look at the recorded waveform.



Identify the recording 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 _	
` '		

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

MARKS	DO NOT
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#### Question 3 (continued)

(b) Listen to this excerpt. Identify the **processing** fault in the bass guitar 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
(11)	Correction	•

You now have one minute to complete your answer.

(a) You will hear two versions of an electric guitar.

The first version has no effects or processes.

The **second** version has a phaser applied.

Listen to version 1 with no effects or processes.

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

1

2

RATE FEEDBACK

SLOW FAST OFF MAX

DEPTH MIX

MIN MAX MIN MAX

1

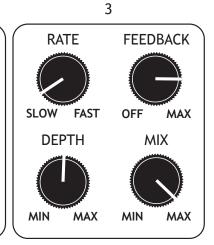
RATE FEEDBACK

SLOW FAST OFF MAX

DEPTH MIX

MIN MAX MIN MAX

2



You now have 30 seconds to complete your answer.

Phaser settings applied (1, 2 or 3)

Justification \_\_\_\_\_

(b) Listen to this excerpt. There is a tremolo effect on the electric guitar. Identify **two** controls of a tremolo effect.

The excerpt will be played twice.

Here is the excerpt for the first time.

Here is the excerpt for the second time.

Control 1

Control 2

[Turn over for next question

DO NOT WRITE ON THIS PAGE

page 07

## MARKS | DO NOT THIS MARGIN

#### **Question 5**

This question is about intellectual property issues.

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

The first excerpt 'Metal on Metal' by Kraftwerk in 1977.

The second excerpt 'Nur Mir' by Sabrina Setlur in 1997.

For nearly 20 years the German electronic music pioneers Kraftwerk fought a copyright dispute with German pop artist Sabrina Setlur. They claimed the use of a two second audio snippet from their track 'Metal on Metal' in the background of the song 'Nur Mir' violated their property right.

The original verdict by the German Federal Constitutional Court claimed there was no copyright breach as the audio used was too short and therefore covered under their 'free use' law. However, this judgment was appealed to the European Court of Justice who overturned the ruling in favour of Kraftwerk. The judge claimed for audio to be used in this way, the composer must modify the audio so that it is 'unrecognisable' to the ear, which in this case, it was not.

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)	excerpt 2?	1
(b)	Tick (✓) <b>one</b> box from the list below to identify two concepts that feature in <b>both</b> excerpts.	1
	Drum sequencer and reverb	
	Distortion and bass guitar	
	Chorus effect and lead vocal	
	Wah-wah and vocoder	



MARKS	DO NOT
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	MARGIN

1

## Question 5 (continued)

(C)	copyright.	

This question features music from different 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

	World music	Ritardando	
	Ostinato	Soul	
	Jazz funk		
	Here is the excerpt for the first Here is the excerpt for the second		
(b)		g quartet. Describe in detail a suitable <b>stereo</b> se to achieve a similar recording. Justify your	3
	You now have <b>two minutes</b> to o	omplete your answer.	
(c)	Listen to this excerpt and ident	,	1
	The excerpt will be played <b>twic</b>		
	Here is the excerpt for the first Here is the excerpt for the second		

This question relates to  $20^{\text{th}}$  and  $21^{\text{st}}$  century genres and styles and innovators in technological developments.

(a)	Choose a genre from the list and answer the question below.				
	Tick (✓) one box to indicate your choice.				
	Indie				
	Electroacoustic				
	Punk				
	You now have three minutes to answer the question.				
	A warning tone will sound 30 seconds before the start of part (b).				
	Give a detailed description of your chosen genre.				
	Your description must make reference to a <b>key attribute</b> and a <b>key technology</b> .	2			

## Question 7 (continued)

)	Choose a technology from the list and answer the question below.			
	Tick (✓) one box to indicate your choice.			
	Gramophone			
	Radio			
	Bass Guitar			
	You now have three minutes to answer the question.			
	A warning tone will sou	and 30 seconds before the start of the next question.		
	Name a key innovator of your chosen technology and describe one example of their influence on the development of this technology.			

#### **Question 8**

Listen to this excerpt.

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.	Name the control and the effect on the synthesiser			
	and	2		
2.	The sample of a is reversed.	1		
3.	The tonality is	1		
4.	The music modulates to the relative	1		
5.	The effect on the male vocal is	1		
6.	The time on the synthesiser is increased.	1		



page 13

5

#### 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.

Time changes	Inverted pedal on string synth	
Vocals sung through a vocoder	Guitar with wah-wah effect	
Bass synth with delay effect	Synth with portamento	
Glockenspiel panned right	Piano plays arpeggios	
Glockenspiel panned left	Modulation to relative minor	

Give the <b>five</b> features on the lines below.						

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]

#### **ADDITIONAL SPACE FOR ANSWERS**



page 15

#### **ADDITIONAL SPACE FOR ANSWERS**



page 16