



Candidates should note that in order to align the notated score with the MIDI file, bars 1–3 are silent. The music begins at bar 4.

**Section A: Analysis and Discrimination**

**Instructions for Section A**

1. Load the AUDIO CD into your CD drive or audio CD player and listen to track 1.
2. Listen to the music while following the printed score.

You may listen to the music as many times as you wish.

1. Look at bars 4–15 on the printed score.

(a) What key is this piece in? Put a cross in the correct box.

F major       G Minor       D minor       B<sup>b</sup> major       (1)

(b) Looking at the metronome marking and time signature, which of the following best describes the rhythmic feel of this piece? Put a cross in the correct box.

3 crotchet beats per bar       4 dotted quaver beats per bar       12 semiquaver beats per bar       2 dotted crotchet beats per bar       (1)

(c) Explain what is meant by the marking  $\text{♩} = 50$  at the beginning of the score.

.....  
.....  
(2)

(d) Describe the cello part played during this section of the score.

.....  
.....  
(2)



Leave  
blank

(e) Using the table below, identify the **three** notes from the basic triad of each of the following chords and identify **one** extension note.

Chord	Basic triad	Extension note
<b>Gm<sup>7 +4</sup></b>		
<b>B<sup>b</sup> maj<sup>9</sup></b>		
<b>C<sup>+4</sup></b>		
	(1 mark x3)	(1 mark x3)

(6)

Q1

(Total 12 marks)

3

Turn over



Leave blank

2. Look at the **instrumental** and **middle section** on the score (bars 61–76).

(a) Complete the table below, giving the meaning of each of the following performance directions.

Bar	Part	Performance direction	Meaning
61	Violins	divisi pizz.	(2)
67	Violins	Arco - vln 1	(2)
69	Drum Kit	(half closed)	(2)

(b) Look at the **Drum Kit** line in **bars 68–69**. Using the percussion stave below, notate the rhythm played by the bass drum during these bars. You should include rests where appropriate.



(2)

Q2

(Total 8 marks)



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blank

**3.** Listen to the audio CD.

- (a) The style of this music could be described as 'acoustic' or 'unplugged'. Identify **three** features of this music that suggest an acoustic or unplugged style. You may include musical as well as production features.

1 .....

2 .....

3 .....

**(3)**

- (b) Which of the following artists/bands is most famous for having produced an unplugged album? Put a cross in the correct box.

The Pet Shop Boys     Eric Clapton     Queen     Iron Maiden

**(1)**

- (c) Briefly describe the development of the unplugged genre.

.....

.....

.....

.....

**(2)**

**Q3**

**(Total 6 marks)**



Leave blank

4. (a) For each of the following effects/production techniques, identify a track/part that features the effect/production technique.

- Reverb .....
- Double tracking .....
- Bounce-back delay .....
- Tremolo .....
- ADT .....

(5)

(b) Complete the table below to describe how the engineer would have created the warm and intimate **lead vocal** sound. The first row of the table has been provided as an example.

Aspect of Production	Description of configuration or settings
Microphone choice	Cardioid capacitor microphone selected to pick up full range of frequencies/less room ambience.
Microphone placement	
Compression	
Reverb	
Equalisation	

(4)

Q4

(Total 9 marks)

(Total for Section A: 35 marks)



Candidates should note that in order to align the notated score with the MIDI file, bars 1–3 are silent. The music begins at bar 4.

**Section B: Controlling and Interpreting MIDI Data**

**Instructions for Section B**

1. Load/open your music sequencing software.
2. Import the file *normal.mid* from the MIDI File Data CD ROM into your music software. If you are using Cubasis 4 or Cubasis 5 you should import the *offset.mid* file. If you are using Sonar software you should open the *normal.mid* file from the file menu.
3. Ensure that you have a General MIDI sound module/sound card/keyboard connected to your computer.
4. Plug your headphones into your sound module/sound card/keyboard.
5. Listen to the MIDI file version of the examination music whilst following the printed score.
6. Complete the following statements:

The first note of the music in the MIDI file version of the song can be heard during (tick your selection):

Bar 4

Bar 6

Other (please specify)

I have used the following MIDI file from the CD ROM in this examination (tick your selection):

normal.mid

offset.mid

The name of the sequencing software I am using is .....

**You may listen to the music as many times as you wish.**

**In order to answer this section you will need to examine the MIDI file data using a range of editors within your music sequencing software.**

**You are advised to take note of the number of marks allocated to each question when deciding how long to spend on each question.**



Leave blank

5. (a) Using the table below, identify the program change number used to select the sound for each track **in bars 2–3**.

Track/part	MIDI channel	Program change number
Lead Vocal	1	
Backing Vocal	2	
Cello	4	
Vibraphone	5	
Electric Guitar	7	

(5)

- (b) Explain the function of the **BV Double** track (MIDI channel 11).

.....  
.....

(2)

- (c) Identify **three** different bars in the **Violins** track that contain program changes.

Bar .....

Bar .....

Bar .....

(3)

Q5

(Total 10 marks)





Leave blank

6. (a) Analyse the **Cello** track between **bars 53–76**. Using the table below, identify errors in **pitch** in the MIDI file compared with the score. The first line has been completed as an example.

	Bar number IN SCORE	Correct Pitch IN SCORE	Incorrect Pitch IN MIDI FILE
Example	55	Bb	C
1			
2			
3			
4			
	(1 mark x4)	(1 mark x4)	(1 mark x4)

(12)

- (b) (i) Which of the following quantise settings would be most appropriately applied to this section of the cello track? Put a cross in the correct box.

8T       16T       8       16

(1)

- (ii) Explain why this quantise value would be the most appropriate.

.....  
.....

(1)

(Total 14 marks)

Q6



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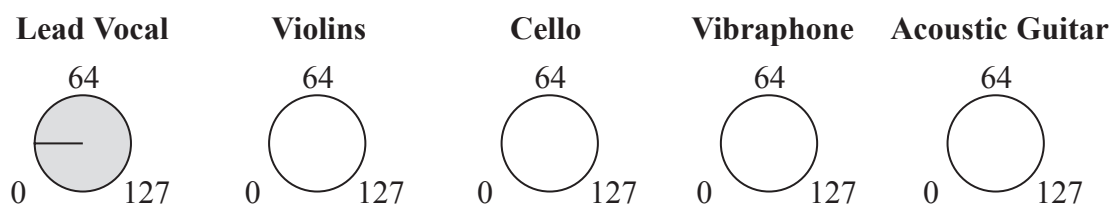
7. MIDI controller events have been used at the start of this track to control various parameters on the playback device being used. This data is transmitted in **bars 2–3**.

(a) Identify the initial values of controllers 7, 11 and 93 for each of the following tracks.

Track	MIDI Channel	Controller 7	Controller 11	Controller 93
Lead Vocal	1			
Backing Vocal	2			
Violins	3			
Cello	4			

(12)

(b) Using the diagram below, mark the **reverb depth** settings for each of the following tracks. An example is given.



(4)

Q7

(Total 16 marks)



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8. The diagram below shows MIDI data contained within a 'header section' of a sequenced track.

Event Type	Start	End	Length	Data 1	Data 2	Chn
Program Change	05.01.01.060	-	-	13	0	3
Controller	05.01.02.000	-	-	7	102	3
Controller	05.01.02.060	-	-	10	46	3
Controller	05.01.03.000	-	-	93	110	3
Controller	05.02.03.000	-	-	1	0	3

(a) Explain the function of the following MIDI events which are used in the header section of a standard MIDI file.

Program Change ..... (1)

Main Volume ..... (1)

Effects Depth 3 ..... (1)

Modulation ..... (1)

(b) Using the table below, identify **two** other MIDI controllers that could be added to the header section above to ensure the track plays back correctly.

	Controller Name	Controller Number	Controller Type
1			
2			
	(1 mark x2)	(1 mark x2)	(1 mark x2)

(6)

Q8

(Total 10 marks)

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9. The General MIDI (GM) Specification was introduced to ensure improved compatibility between MIDI devices such as keyboards, synthesisers and sound modules.

(a) Explain how the timbres/programs are arranged within a General MIDI sound set.

.....  
.....  
.....

(2)

(b) General MIDI compatible devices must feature the General MIDI standard sound set. List **three other** technical requirements the MIDI device must meet in order to be General MIDI compatible.

1 .....  
2 .....  
3 .....

(3)

Q9

(Total 5 marks)



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10. MIDI file programmers use a combination of sequencing techniques in an attempt to achieve a musical performance.

Using the table below, explain how the programmer has used sequencing techniques to recreate musical features. An example has been provided for you.

Bar reference IN SCORE	Track	Musical Feature	Sequencing techniques used to recreate the musical feature
4-5	Acoustic Guitar	Strummed chords	<ul style="list-style-type: none"> <li>Notes staggered slightly</li> <li>Variation in velocity to accent main beats of bar</li> </ul>
1	16	Drum Kit	Soft snare 'ghost' notes
2	16-23	Cello	Expressive legato lines
3	20-27	Vibraphone	Octave tremolando
4	20-27	Electric Guitar	Tremolo effect
5	32-35	Electric Guitar	Delay effect
			(2 marks x 5)

(Total 10 marks)

(Total for Section B: 65 marks)

TOTAL FOR PAPER: 100 MARKS

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Q10



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