

Mark Scheme (Results)

Summer 2022

Pearson Edexcel GCE In Music Technology (8MT0) Paper 3 Listening and analysing

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Question	Answer	Mark
Number		
1a (i) TYPE 4	A. Gated. This is the only correct answer. B, C and D are incorrect as there is no use of gating.	
		(1)

Question Number	Answer	Mark
1a (ii) TYPE 4	 A. 1/16. This is the only correct answer. A is incorrect as they would not allow for semiquaver rhythms C and D are incorrect because they are swung rhythms so are inappropriate to quantise a straight rhythm. 	(1)

Question	Answer	Mark
Number		
1a (iii)		
TYPE 1	Fewer sounds/reduced to basic kit/layers	
	removed/less complex	(1)
		ļ

Question Number	Answer	Mark
1a (iv)		
TYPE 1	Pronounced LF/bass response	
	HF/upper mid 'Click'	
	Scooped mids	(1)

Question	Answer	Mark
Number		
1b		
TYPE 2	Panned left and right	
	Different EQ	
	NB Accept appropriate diagrams or numeric responses.	
		(1)

Question	Answer	Mark
Number		
1c (i)		
TYPE 2	It is quieter/lower in the mix at 1.51	
	It is wetter	(1)

Question	Answer	Mark
Number		
1c (ii)		
TYPE 1	To give room for the lead vocal	
	It is loud enough to provide rhythmic interest	(1)
		ļ

Question	Answer	Mark
Number		
1d		
TYPE 1	Reverb/delay is more pronounced/wetter/longer	
	Large(r) pre-delay	(1)

Question	Answer	Mark
Number		
1e TYPE 2	Compression/limiting	(1)

Question	Answer	Mark
Number		
1f		
TYPE 2	Automation	
	Steady hand on the fader	(1)

(Total for Question 1 = 10 marks)

Question	Answer	Mark
Number		
2a (i)		
TYPE 1	Lacks LF	
	Lacks HF	
	Mid-Heavy	(2)

Question	Answer	Mark
Number		
2a (ii)		
TYPE 2	• EQ	
	Mics with a wider frequency response	
	Digital recording	
	Higher tape speed	(4)
	Thicker tape	(1)

Question	Answer	Mark
Number		
2b		
TYPE 1	Any four of the following:	
	 Cannot EQ parts individually 	
	Cannot balance parts individually (other than by	
	proximity to mic)	
	 Cannot apply effects to individual parts 	
	Cannot use stereo	
	There can be a lack of clarity in the mix	
	 Can only apply compression to the entire mix 	
	 If there is a mistake, you have to start again 	(4)

Question Number	Answer		Mark
2c			
TYPE 1	Problem	Solution	
	Distortion	Reduce gain/compress	
	Overly loud in the mix	Reduce level when mixing	
	Uncontrolled dynamics	Compression/Volume Automation	
	Too dry	Add reverb	
			(4)

Answer	Mark
• Hiss	
Poor signal to noise ratio Crackle	(1)
	• Hiss

(Total for Question 2 = 10 marks)

Question Number	Answer	Mark
3a TYPE 1	 Any two of the following Stereo Dry signal R / Wet signal L / panned opposite Single repeat / 0% feedback Delayed signal is quieter Tape/Analogue delay 	
		(2)

Question Number	Answer	Mark
3b TYPE 1	 Regular piano left/L Tack piano right/R / Tack piano spread across the stereo field with FX 	
	NB Accept diagrams and numeric responses.	(2)

Question	Answer	Mark
Number		
3c (i)		
TYPE 2	Sine / Triangle	
		(1)

Question Number	Answer	Mark
3c (ii) TYPE 1	AnalogueMonophonicVoltage controlledModular	
	Accept valid model e.g. VCS3 / Moog	(1)

Question Number	Answer	Mark		
3d				
TYPE 1	Any four of the following:			
	Individual voices recorded to separate tracks			
	Tape spliced to form a loop			
	 Cut into lengths and spliced together to form a 			
	continuous playback			
	Tape speed increased on playback			
	Looped on a separate machine			
	DelayWEM Copicat / tape (delay)			
	Transferred back to master tape			
	Reverb applied	(4)		
		(4)		

(Total for Question 3 = 10 marks)

Question	Answer	Mark
Number		
4 (a)	LFO / Modulation wheel	
TYPE 2		
		(1)

Question	Answer	Mark
Number		
4b (i) TYPE 2	Multitracked/ADT	
		(1)

Question	Answer	Mark
Number		
4b (ii)	Thickens the texture/Makes the vocal more	
TYPE 2		
		(1)

Question Number	Answer		Mark	
4c (i) TYPE 1	Placement	Facing the bellSlightly towards the sound Holes		
	Distance	• 10-20 inches/25-50 cm		
	Reducing spill	 Directional mic Record in separate space/ booth Baffles Non-reflective surfaces 		
	Mic Choice	Condenser / Dynamic / ribbon	(1)	

Question	Answer	Mark
Number		
4c (ii)	Key clicks	
TYPE 2	 Unwanted breath sounds 	
	 Restricted movement of player 	
	 Unwanted resonance from bell 	
	 Proximity effect if too close 	(1)
	 Not enough ambience/too dry 	

Question Number	Answer	Mark	
4d TYPE 1	One mark is awarded for ea 3) with further marks for ex		
	Answers may include any o	_	
	AO3	A03	
	The rhythm guitars are panned left and right	this differentiates them in the mix	
	The lead guitar has a short delay, with signals panned separately	this gives the impression of doubletracking, makes a fuller sound	
	The lead guitar is high in the mix	this gives it prominence and power	
	The lead guitar has a fairly bright EQ	this lifts it out of the mix	
	The lead guitar is distorted	Adds sustain / singing quality	
	The strings are relatively low in the mix	this gives them a supportive pad-like role, and space for the feature instruments	
	The strings are panned across the stereo field	this adds more width to the mix	
	The EQ of the rhythm section is quite bass, low-mid focused	this gives weight to the drums, bass and guitars	

Panning of the band is quite wide Piano chords panned R Synth 'drops'/stabs - Layered/overdubbed electric guitar -	this allows the guitar solo to take centre stage to oppose electric rhythm guitar on L punctuate rhythm/provide fills at the ends of phrases thicker chord texture	
		(6)

(Total for Question 4 = 14 marks)

Question Number	Answer	Mark
5 TYPE 1	AO3 (8 marks)/AO4 (8 marks)	
	 Marking instructions Markers must apply the descriptors in line with the general marking guidance and the qualities outlined in the levels-based mark scheme below. Responses that demonstrate only AO3 without any AO4 should be awarded marks as follows: 	
	 Level 1 AO3 performance: 1-2 marks Level 2 AO3 performance: 3-4 marks Level 3 AO3 performance: 5-6 marks Level 4 AO3 performance: 7-8 marks 	
	 Responses that refer to only one song should be awarded marks as follows: 	
	 Level 1 performance: 1-2 marks Level 2 performance: 3-4 marks Level 3 performance: 5-6 marks Level 4 performance: 7-8 marks 	
	Indicative content guidance The indicative content below is not prescriptive and candidates are not required to include all of it. Other relevant material not suggested below must also be credited. Relevant points may	
	include:	(16)

AO3	AO4
Capture: OC	 This allows for a clean sound Allows detailed manipulation of audio Crunchy/textural effect
Capture: S&P	 Allows detailed manipulation of audio Additional samples add a new more EDM vibe
Instrumentation: OC	 Some sense of a live quality via the vocal Intricate textures Variety of sounds Allows for tight rhythm Synth creates rhythmic element
Instrumentation: S&P	 This has inherited the live quality of the vocal, but it is sampled only The restricted EQ on the vocal remains the same as OC Additional samples/synths add new harmonic structure Repetitive nature of loops very well-suited to a club environment
 Effects: OC Many and varied effects including a range of reverbs – contrasts between wet reverbs and dry sounds - very dry vocal in verses, a much wetter feel to entire mix in chorus (1:25) tight ambience reverb on lead vocal delays – eg stereo delay from 0:00 on synth filters – sweeps (eg 0:19), restricted frequency range on vocals and drums (eg 0:43) 	 these lead to a variety of textures/colours used creatively to enhance the song intimate quality Sweeps create builds and drops, and frame sections Effects used to create space/width in the mix Delays create rhythmic patterns

Use of autotune for corrective and artistic purposes	
Effects: S&P • (More) Delays (eg vocal 0:39) • Reversed samples (0:56) • Heavy reverbs	 Delays and reverbs used to create width and depth They also create rhythmic impetus Reversed samples to announce/build into new section Very long delay at end serves as a fadeout
Stereo: OC • A wide use of the field with stereo delays, split signals panned in opposition (eg strings at 1:04)	 Stereo used to give space and movement Also gives a thickness to the texture
Stereo: S&P	 Panning would not be readily perceived (or desired) in a club situation Panning widens the mix and creates interest
General: OC Distorted pad added in the chorus Tempo slows at the end Syncopated/gappy drum and bass patterns Octave/unison vocals	 The chorus has a sense of greater dynamic contrast Gives a satisfying sense of conclusion Leaves space for vocal Subtle layering effect
General: S&P Faster tempo A higher/more consistent perceived volume Brickwall limiting More synth layers	 The bpm has been raised to make it more danceable A more restricted dynamic range is suitable to a club setting Pumping

Level	Mark	Descriptor
•	• 0	No rewardable material.
• Level	• 1-4	 Demonstrates and applies limited knowledge and understanding of production techniques used, some of which may be inaccurate or irrelevant. (AO3) Gives limited analysis and deconstruction of production techniques used, making limited comparisons between the two recordings and/or little attempt at chains of reasoning. (AO4)
• Level 2	• 5-8	 Demonstrates and applies some knowledge and understanding of production techniques used, which is occasionally relevant but may include some inaccuracies. (AO3) Gives some analysis and deconstruction of production techniques used, making some comparisons between the two recordings and/or simplistic chains of reasoning. (AO4)
• Level	• 9- 12	 Demonstrates and applies clear knowledge and understanding of production techniques used, which is mostly relevant and accurate. (AO3) Gives clear analysis and deconstruction of production techniques used, making clear comparisons between the two recordings and competent chains of reasoning. (AO4)
• Level 4	• 13- 16	 Demonstrates and applies detailed knowledge and understanding of production techniques used, which is relevant and accurate throughout. (AO3) Gives detailed and accurate analysis and deconstruction of production techniques used, making detailed comparisons between the two recordings and logical chains of reasoning. (AO4)

Level	Mark	Descriptor		
	0	No rewardable material.		
Level 1	1-4	 Demonstrates limited knowledge and understanding of production techniques/technology used, some of which may be inaccurate or irrelevant (AO3). Applies limited analysis and deconstruction of production techniques/technology used in the recording with little attempt at chains of reasoning (AO4). Makes limited connections between the production techniques/technology used in the recording and their wider impact (AO4). Makes limited evaluative and/or critical judgements about the wider impact of the production techniques/technology used in the recording (AO4). 		
Level 2	5-8	 Demonstrates knowledge and understanding of production techniques/technology used, which are occasionally relevant but may include some inaccuracies (AO3). Applies some analysis and deconstruction of production techniques/technology used in the recording, with simplistic chains of reasoning (AO4). Makes some connections between the production techniques/technology used in the recording and their wider impact (AO4). Makes some evaluative and/or critical judgements about the wider impact of the production techniques/technology used in the recording (AO4). 		
Level 3	9–12	 Demonstrates clear knowledge and understanding of production techniques/technology used, which are mostly relevant and accurate (AO3). Applies clear analysis and deconstruction of production techniques/technology used in the recording which is mostly detailed, with competent chains of reasoning (AO4). Makes valid connections between the production techniques/technology used in the recording and their wider impact (AO4). Makes clear evaluative and critical judgements about the wider impact of the production techniques/technology used in the recording (AO4). 		
Level 4	13-16	 Demonstrates detailed knowledge and understanding of production techniques/technology used, which are relevant and accurate (AO3) Applies detailed and accurate analysis and deconstruction of production techniques/technology used in the recording, with logical chains of reasoning on occasion (AO4). Makes detailed and valid connections between the production techniques/technology used in the recording and their wider impact (AO4). Makes detailed and valid evaluative and critical judgements about the wider impact of the production techniques/technology used in the recording (AO4). 		

Level	Mark	Mark Descriptor		
	0	No rewardable material.		
Level 1	1-3	 Demonstrates limited knowledge and understanding of production techniques used, some of which may be inaccurate or irrelevant (AO3). Gives limited analysis and deconstruction of production techniques used with little attempt at chains of reasoning (AO4). Makes limited comparisons between the two recordings, with little or no conclusion (AO4). 		
Level 2	4-6	 Demonstrates some knowledge and understanding of production techniques used, which is occasionally relevant but may include some inaccuracies (AO3). Gives some analysis and deconstruction of production techniques used with simplistic chains of reasoning (AO4). Makes some comparisons between the two recordings, reaching unsupported conclusions (AO4). 		
Level 3	7-9	 Demonstrates clear knowledge and understanding of production techniques used, which is mostly relevant and accurate (AO3). Gives clear analysis and deconstruction of production techniques used, with competent chains of reasoning (AO4). Makes clear comparisons between the two recordings, reaching partially supported conclusions (AO4). 		
Level 4	10-12	 Demonstrates detailed knowledge and understanding of production techniques used, which is relevant and accurate (AO3). Gives detailed and accurate analysis and deconstruction of production techniques used, with logical chains of reasoning on occasion (AO4). Makes detailed comparisons between the two recordings, reaching well supported conclusions (AO4). 		
Level 5	13-15	 Demonstrates sophisticated and accurate knowledge of production techniques used throughout (AO3). Gives sophisticated and accurate analysis and deconstruction of production techniques used, with logical chains of reasoning throughout (AO4). Makes detailed comparisons between the two recordings, reaching sophisticated conclusions (AO4). 		

Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-4	 Demonstrates limited knowledge and understanding of production techniques/technology used, some of which may be inaccurate or irrelevant (AO3). Applies limited analysis and deconstruction of production techniques/technology used in the recording with little attempt at chains of reasoning (AO4). Makes limited connections between the production techniques/technology used in the recording and their wider impact (AO4). Makes limited evaluative and/or critical judgements about the wider impact of the production techniques/technology used in the recording (AO4).
Level 2	5-8	 Demonstrates knowledge and understanding of production techniques/technology used, which are occasionally relevant but may include some inaccuracies (AO3). Applies some analysis and deconstruction of production techniques/technology used in the recording, with simplistic chains of reasoning (AO4). Makes some connections between the production techniques/technology used in the recording and their wider impact (AO4). Makes some evaluative and/or critical judgements about the wider impact of the production techniques/technology used in the recording (AO4).
Level 3	9-12	 Demonstrates clear knowledge and understanding of production techniques/technology used, which are mostly relevant and accurate (AO3). Applies clear analysis and deconstruction of production techniques/technology used in the recording which is mostly detailed, with competent chains of reasoning (AO4). Makes valid connections between the production techniques/technology used in the recording and their wider impact (AO4). Makes clear evaluative and critical judgements about the wider impact of the production techniques/technology used in the recording (AO4).
Level 4	13-16	 Demonstrates detailed knowledge and understanding of production techniques/technology used, which are relevant and accurate (AO3) Applies detailed and accurate analysis and deconstruction of production techniques/technology used in the recording, with logical chains of reasoning on occasion (AO4). Makes detailed and valid connections between the production techniques/technology used in the recording and their wider impact (AO4). Makes detailed and valid evaluative and critical judgements about the wider impact of the production techniques/technology used in the recording (AO4).
Level	Mark	Descriptor
Level 5	17-20	 Demonstrates sophisticated and accurate knowledge and understanding of production techniques/technology used throughout (AO3). Applies sophisticated and accurate analysis and deconstruction of production techniques/technology used in the recording and logical chains of reasoning throughout (AO4). Makes sophisticated and valid connections between the production techniques/technology used in the recording and their wider impact (AO4). Makes sophisticated and valid evaluative and critical judgements about the wider impact of the production techniques/technology used in the recording (AO4).

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