

Monday 6 June 2016 – Afternoon

AS GCE GENERAL STUDIES

F732/01 The Scientific Domain

Candidates answer on the Question Paper.

OCR supplied materials:

None

Other materials required:

Scientific calculator

Duration: 1 hour



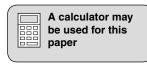
Candidate forename			Candidate surname					
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INSTRUCTIONS TO CANDIDATES

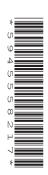
- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer all the guestions in Section A and one guestion in Section B.
- Read each question carefully. Make sure you know what you have to do before starting vour answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- You are advised to divide your time equally between Sections A and B.
- The quality of your written communication will be assessed, including clarity of expression, structure of arguments, presentation of ideas, grammar, punctuation and spelling.
- This document consists of 12 pages. Any blank pages are indicated.



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SECTION A

Answer all of the questions in this section.

Table 1 below shows an extract from a train timetable between London Euston and Manchester Piccadilly.

Table 1

London Euston	12:40	13:00	13:20	13:40	14:00	14:20
Milton Keynes Central	_	-	13:50	_	_	14:50
Stoke-on-Trent	_	14:25	14:48	_	15:25	15:48
Macclesfield	_	14:41	_	_	15:41	_
Crewe	14:11	_	_	15:11	_	_
Wilmslow	14:27	_	_	15:27	_	_
Stockport	14:37	14:56	15:17	15:37	15:56	16:17
Manchester Piccadilly	14:49	15:07	15:28	15:49	16:07	16:28

(a) (i)	At what time does the first train from Milton Keynes Central arrive at Manchester Piccadilly?
	[1]
(ii)	How long does the journey take?
	[1]
(iii)	A student needs to travel from London to arrive at Keele University by 4.30 pm. He will need to take a train from London Euston to Stoke-on-Trent. He will then need to take a bus to Keele University. It takes five minutes to walk from the railway station to the bus. Buses leave Stoke-on-Trent railway station to Keele University at 10, 20 and 50 minutes past each hour and this journey takes 40 minutes.
	Using this information and Table 1 give the precise travel details of the student's journey. It should start with the latest train that he can catch from London Euston, and end with the time he will arrive at Keele University.

	What is the average speed of the train?	
		[3]
train and	n services to and from London Euston. This information will be collected beto 9.30 am on a weekday.	
	trair and	A survey has been commissioned to gather the views of passengers about the train services to and from London Euston. This information will be collected betand 9.30 am on a weekday. Outline three reasons why the survey might prove to be unreliable.

2 Figure 1 shows the percentage of four different age groups and their purchases over the internet in 2014.



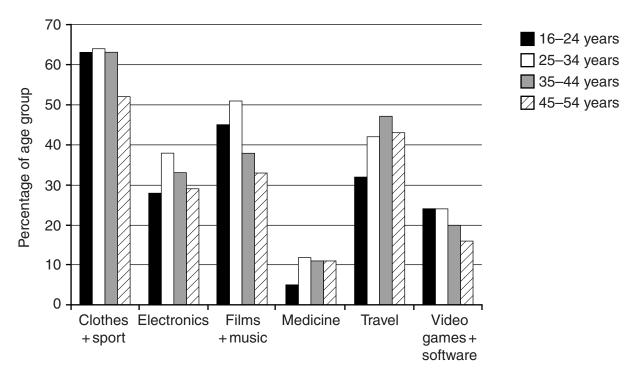


Figure 1

(a) (i)	Name two categories of internet purchases that 10% more of the 25-34 age group bought compared to the 16-24 age group.
	[2]
(ii)	State three differences between internet purchases for Clothes and sport and Films and music as shown by the graph.
	[3]

(b)	Outline three possible health risks of using medicines purchased over the internet.						
	[9]						

SECTION B

Answer **one** question from this section. *Your answer should be in continuous prose.*

Answer in the space provided on pages 8 to 11.

3 The following information concerns the process of scientific investigation:



- ask a question
- read background information
- form a hypothesis
- conduct experiments
- analyse and communicate results.

Assess the reliability of this model for scientific investigation. Use **one** example to support your answer.

[30]

4 Why are some forecasts successful when others are unreliable?

[30]

- 5 In the future, there may be more funding available for research into the following different areas:
 - genetically modified food
 - mental health problems
 - organ transplants.

Choose **one** of these areas. Outline and discuss why your chosen area should have an increase in funding compared to the other areas. [30]

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Write the number of the question answered in the margin.							

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ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(smust be clearly shown in the margin(s).							
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