

# Tuesday 14 June 2022 - Afternoon

# A Level Mathematics B (MEI)

H640/02 Pure Mathematics and Statistics

Printed Answer Booklet

Time allowed: 2 hours

#### You must have:

- Question Paper H640/02 (inside this document)
- a scientific or graphical calculator



Please write clearly in black ink. <b>Do not write in the barcodes.</b>								
i icase write ore	arry irr	Diaci	iiiix.	DO IIC	)	e in the barcodes.		
Centre number						Candidate number		
First name(s)								
Last name								

### **INSTRUCTIONS**

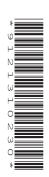
- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the Printed Answer
  Booklet. If you need extra space use the lined pages at the end of the Printed Answer
  Booklet. The question numbers must be clearly shown.
- · Answer all the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give your final answers to a degree of accuracy that is appropriate to the context.

### **INFORMATION**

This document has 20 pages.

### **ADVICE**

· Read each question carefully before you start your answer.



1	
2	

3(a)		1/					
	10	<i>y</i> ) <del>1</del>					
	<u> </u>	3-					
		,					
	6	5++++					
	4	ļ <del> </del>					
	1 2	2-					
							<b>x</b>
-1	-0.5	)	0.5	1	1.5	2.5	3
3(b)							

4(a)	
4(b)	
5	

6	
7	

PLEASE DO NOT WRITE ON THIS PAGE

8(a)	
8(b)	
0()	
8(c)	

## DO NOT WRITE IN THIS SPACE

© OCR 2022 Turn over

9(a)	
	The mean mark =
	The variance of the marks =
9(b)	
9(c)	
9(d)	

10(a)	
10(b)	

11(a)	
11(b)	
11(c)	
11(d)	
11(u)	

11(e)	
12(a)	
12(b)	
12(c)	

13(a)	
13(b)	

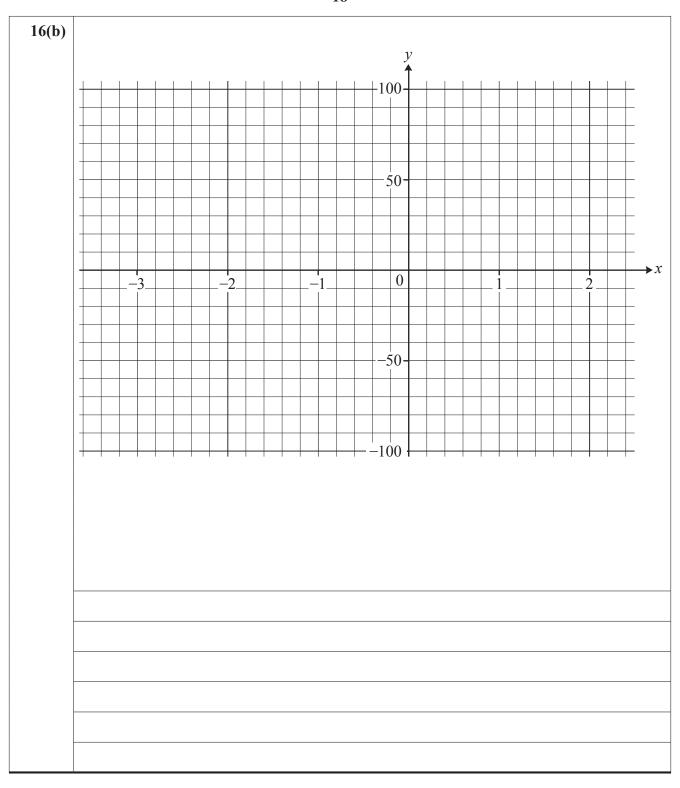
14(a)	
14(b)	
14(c)	
14(0)	
14(d)	
17(u)	

14(e)	
15()	
15(a)	
15(b)	
15(c)	

15(d)											
_											
_											
-											
_											
15(e)			Sc	atter dia	igram of	f life exp GDP per	pectancy capita i	at birth	in 2010		
		85.00 <sub>T</sub>				T .	1	· 			
		80.00		•	rs.p	•		•	•	)	
	x : 0	75.00	•	••••							
	Life	70.00	•••	1							
	expectancy at birth	60.00									
	in 2010	55.00									
		50.00									
		45.00									
		40.00	200	000 400	000 60	000 80	000 100	000120	000140	000160	000
		· ·	200				pita in U			000100	
15(f)											
-											
-											
_											
_											
_											

	(answer space continued on next page)
16(a)	

16(a)	(continued)



# ADDITIONAL ANSWER SPACE

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