Surname				Names			
Centre Number				Candida	ate Number		
Candidate Signature							

General Certificate of Secondary Education June 2004

MATHEMATICS (MODULAR) (SPECIFICATION B) 33003/IB Module 3 Intermediate Tier Section B

Wednesday 30 June 2004 9.45 am to 10.25 am

In addition to this paper you will require: mathematical instruments. You must not use a calculator.



Time allowed for Section B: 40 minutes

Instructions

- Use blue or black ink or ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions in the spaces provided.
- Do all rough work in this booklet.
- You may **not** use your calculator in Section B. Your calculator must remain on the floor under your seat.
- When you have answered Section B you may work again on Section A but you may **not** use your calculator. It must remain on the floor under your seat.
- At the end of the examination tag Section A and Section B together with Section A on top.

Information

- The maximum mark for Section B is 32.
- Mark allocations are shown in brackets.
- Additional answer paper will be issued on request and must be tagged securely to this answer booklet.

Advice

• In all calculations, show clearly how you work out your answer.

33003/IB

ALIFICATIONS

Answer all questions in the spaces provided.

10	Four	melons cost £4.28	
	How	much will five melons cost?	
		Answer £	(3 marks)
11	(a)	While in the USA, John pays \$30 for a pair of trainers. The exchange rate is \$1.50 to £1.	
		Calculate the cost of the pair of trainers in £.	
		Answer £	(2 marks)
	(b)	John also buys an ink cartridge which costs \$25. He has to pay a tax of 6% which is added onto this cost.	
		Calculate the total cost of the ink cartridge in \$.	
			••••••
		Answer \$	(3 marks)

12	(a)	Kim buys 71 stamps which cost 19 pence each.
		By using suitable approximations, estimate the total cost of the stamps. You must show your working.
		Answer £
	(b)	Liz has 40 postage stamps. The ratio of the number of first class stamps to the number of second class stamps is 1:4.
		How many second class stamps does Liz have?
		Answer

TURN OVER FOR THE NEXT QUESTION



13	(a)	Find the value of 2×3^2	
		Answer	(2 marks)
	(b)) What is 80 as a percentage of 500?	
		Answer %	(2 marks)
	(c)	Find the value of 0.2^2	
		Answer	

14	(a)	Express 96 as a product of its prime factors. Give your answer in index form.
		Answer
	(b)	Find the Highest Common Factor (HCF) of 36 and 96.
		Answer

TURN OVER FOR THE NEXT QUESTION



(a)	Find an approximate value of $\frac{296 \times 8.13}{0.39}$	
	You must show all your working.	
	Answer	(3 marks
(b)	Work out $4\frac{1}{3} - 1\frac{2}{5}$	
	Answer	(3 marks
(c)	Find the value of $\frac{\frac{1}{4} \times 16}{\frac{1}{27} \times (3)^2}$	
	Answer	(3 marks
(d)	Write 0.000274 in standard form.	
	Answer	(1 mark

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