



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

Examination Answer Books

12 Pages

Instructions to Candidates

1. Please give the information requested in the boxes below
2. Enter your name in the space provided to the right, f and seal down (using the label provided) to hide you
3. The answers must be legibly written. The Examiners can more illegible script or have it typed and the expense of typing charged to the candidate.
4. Write your answers in ink.
5. Begin each answer on a fresh page. Do all rough work in the answer boo. ross it through.
6. No part of this book is to be torn out; it must be handed in complete.
7. If more books than one are used, fasten them together using the tags available from the invigilator(s).
8. Every book must be handed in. In no circumstances may answer books, used or unused, be taken out of the examination venue.

Complete, fold and seal
(see note 2 below)

SURNAME: Leanne

FORENAME(S): agnor

1	Student Number	2321514
2	Title of Examination Paper	mathematics
3	Module Code	ACDB4003
4	Date and Time of Examination	1st may 2024
5	Examination Venue	301C
6	Seat Number	
7	Number of Answer Books handed in	1

List the numbers of the questions you have attempted	Office Use
Q1	3
Q2	2
Q3	0
Q4	0
Q5	0
Q6	0
Q7	0
Q8	0
Total	5

5/0

Proof!

1

$$6x + 11y + 11z$$

A handwritten signature in cursive script, appearing to be "L". It is written in dark ink on lined paper.

IV

$$6P3 \text{ or } 3r-3$$

α

V

$$\frac{2fg}{16h} \times \frac{8gh^2}{4fh} \times \frac{32fh^3}{64f^3}$$



2

$$(i) x^2 + 10x = -25$$

$x = -5$ (write) show how

2

$$(ii) \frac{(x-3)}{4} = x + \frac{(2x-4)}{8}$$

$$x = -0.75 + 0.50$$

$$x = 1.25$$

3

a

$$(i) 4^2 x^{-1} = 3^x + 1$$

$$(ii) \log(x^2 + 4) - \log(x + 8) = \log x$$

b

$$(i) \log(x^2 y z)$$

$$(ii) \log\left(\frac{x^4 y^2}{z}\right)$$

④

①

$$\underline{a \cdot b}$$

$$2i - 3j + 4k \cdot 1$$

α should be a scalar!

⑤

 α

⑥

 α

⑦

i

$$y = 5x - 3$$

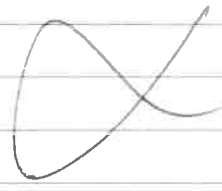
 α

8

$$\textcircled{i} \int (4x + x^3) dx \quad \left[f(5x^3) \right]$$

$\times$

$$\textcircled{iv} \int (x^2 - 1)(3x + 4) dx$$

$$\textcircled{v} \int_3^6 (3x^2 + 2x) dx = \left[f(3x^2) \right]_3^6$$
$$= f(6) + f(3)$$




Question No

Examiner Only

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Arholwr yn unig