

AS Level Further Mathematics A

Y534/01 Discrete Mathematics Printed Answer Booklet

Thursday 17 May 2018 – Afternoon Time allowed: 1 hour 15 minutes

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You must have:

- Question Paper Y534/01 (inserted)
- Formulae AS Further Mathematics A

You may use:

• a scientific or graphical calculator



First name	
Last name	
Centre number	Candidate number

INSTRUCTIONS

- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Complete the boxes provided on the Printed Answer Booklet with your name, centre number and candidate number.
- Answer all the questions.
- Write your answer to each question in the space provided in the Printed Answer Booklet. If additional space is required, you should use the lined page(s) at the end of the Printed Answer Booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.
- The acceleration due to gravity is denoted by $gm s^{-2}$. Unless otherwise instructed, when a numerical value is needed, use g = 9.8.

INFORMATION

- You are reminded of the need for clear presentation in your answers.
- The Printed Answer Booklet consists of 12 pages. The Question Paper consists of 8 pages.

1(i)	
1(1)	
	Crate 1:
	Crate 2:
	Crate 3:
	Crate 4:
	Crate 5:
	Crate 6:
	Crate 7:
1(ii)	
1(iii)	

2(i)	
2(ii)	
2(iii)	

4
4

3(i)				
5(1)		Р	0	R
	V		Q (5.2)	
	X	(1, 4)	(5, 3)	(2, 6)
	Y	(5, 2)	(1, 3)	(0, 1)
	Z	(4, 3)	(3, 1)	(2, 1)
3(ii)				
3(iii)				
2(1)				
3(iv)				

5

4(i)	
4(ii)	
4(iii)(a)	
4(iii)(b)	
	Weight =

5(i)	
5(ii)(a)	
5(ii)(b)	
5(iii)	
5(iv)	Handmade =
	Flowers =
	Animals =
	Others =

5(v)	
5(vi)	

6(i)							
	Minimum project	completion	time =				
	Critical activities:						
	Activity						
	Float (days)						
		1		I	1	1	
6(ii)							
6(iii)							
U (III)				 			

9

6(iv)(a)	
6(iv)(b)	
0(11)(0)	
6(iv)(c)	

10

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).

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