

MATHEMATICS

Calculator-assumed

ATAR course examination 2018

Marking Key

Marking keys are an explicit statement about what the examining panel expect of candidates when they respond to particular examination items. They help ensure a consistent interpretation of the criteria that guide the awarding of marks.

The examining panel provide a provisional marking key. The marking key is refined or modified as necessary in the light of sample marking and discussion between the chief examiner and the chief marker.

Section Two: Calculator-assumed

xx% (xx Marks)

Question 9

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 10

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(d)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(e)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 11

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 12

(x marks)

(a) (i)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	

(ii)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	

(d)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 13

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓ ✓ ✓ ✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓ ✓ ✓ ✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓ ✓ ✓ ✓	

(d)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(e)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(f)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 14

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(i)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(ii)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 15

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 16

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(d)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 17

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 18

(x marks)

(a)

(x marks)

Solution	
	10
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

Question 19

(X marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(d)

(i)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(ii)

(x marks)

Solution	
Specific behaviours	
✓ ✓ ✓ ✓	

(iii)

(x marks)

Solution	
Specific behaviours	
✓ ✓ ✓ ✓	

Question 20

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(d)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(e)

(x marks)

Solution	
Specific behaviours	
✓ ✓ ✓ ✓	

(f)

(x marks)

Solution	
Specific behaviours	
✓ ✓ ✓ ✓	

Question 21

(x marks)

(a)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(b)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(c)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

(d)

(x marks)

Solution	
Specific behaviours	
✓	
✓	
✓	
✓	

