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1. (a) Table of least distances

	A	B	C	D	E	F	G
A	-		15	36		53	23
B		-	17	38	49	80	49
C	15	17	-	21		62	32
D	36	38	21	-	11	42	
E		49		11	-	31	61
F	53	80	62	42	31	-	30
G	23	49	32		61	30	-

(b)

(c)

Nearest neighbour route:

Length of route:

Lower bound:

(Total 11 marks)

Q1



Lined writing area for student response.

(Total 13 marks)

Q2



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3.

	<i>cutting</i>	<i>stitching</i>	<i>filling</i>	<i>dressing</i>
<i>A</i>	66	101	85	36
<i>B</i>	66	98	74	38
<i>C</i>	63	97	71	34
<i>D</i>	67	102	78	35

(a) You may not need to use all of these tables

	<i>cutting</i>	<i>stitching</i>	<i>filling</i>	<i>dressing</i>
<i>A</i>				
<i>B</i>				
<i>C</i>				
<i>D</i>				

	<i>cutting</i>	<i>stitching</i>	<i>filling</i>	<i>dressing</i>
<i>A</i>				
<i>B</i>				
<i>C</i>				
<i>D</i>				

	<i>cutting</i>	<i>stitching</i>	<i>filling</i>	<i>dressing</i>
<i>A</i>				
<i>B</i>				
<i>C</i>				
<i>D</i>				



(b) _____

Minimum time for one Teddy Bear: _____

(c) _____

Time for 20 Teddy Bears: _____ minutes _____ seconds

(Total 13 marks)

Q3

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4. (a)

	Adult	Student	Dummy	Seats Available
Performance 1	£5.00	£4.50		
Performance 2	£4.20	£3.80		
Performance 3	£4.60	£4.00		
Tickets needed				

(b) _____

(c)

	Adult	Student	Dummy
1			
2			
3			

(d)

	Adult	Student	Dummy
1			
2			
3			

	Adult	Student	Dummy
1			
2			
3			



	Adult	Student	Dummy
1			
2			
3			

	Adult	Student	Dummy
1			
2			
3			

	Adult	Student	Dummy
1			
2			
3			

	Adult	Student	Dummy
1			
2			
3			

(Total 16 marks)

Q4



A large area for writing answers, consisting of many horizontal lines.

Q5

(Total 8 marks)



Stage	State	Action	Destination	Value

(b)

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(Total 14 marks)

TOTAL FOR PAPER: 75 MARKS

END

Q6



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