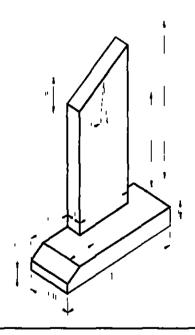


JUNIOR CERTIFICATE 2001 MATERIALS TECHNOLOGY (WOOD)

MARKING SCHEME - ORDINARY LEVEL SECTION A



NOTE

Please ensure that totals for each question are divided by TWO before entering marks on marking sheets

SECTION A – Short Answers Mark all questions, select the best 16 questions This section is marked out of 80 marks Divide the final mark by 2 on completion of marking

Q	SOLUTION	MARKS	DIAGRAM (IF ANY)
1	Complete Sketch	5 marks	
2a	Name: Chisel / Firmer Chisel	Either. 3 marks	
	Use: Cutting / Paring / Chopping.	Both 5 marks	I Della Company
OR		OR	
2b	<i>Name</i> · Marking Gauge/ Gauge	Either: 3 marks	
	Use: Marking to width / thickness Marking lines	Both 5 marks	
3	To prevent the wood from splitting/ Easier to insert screw	5 marks	
4	Name: Block Joint/ Knockdown Fitting(KD) Modesty Block Use:Join panels at right Angles	Either 3 marks Both. 5 marks	

Q	SOLUTION	MARKS	DIAGRAM (IF ANY)
5	Name: A: Oak B: Holly	Either 3 marks Both 5 marks	
6	Arrows for length	5 marks	
7	Electric Sander: Two safety rules: Wear: Goggles Ear Muffs Mask Proper Clothing Sound. Plug Cables Safe work practices etc.	Any One [.] 3 marks TWO 5 marks	
8	Name Joint: Housing/Housed	5 marks	
9	Show Annual Rings	5 marks	
10	Outline of Coniferous Tree	5 marks	
11	Advantages.of Plywood: Large Sheets / Stable Strength / No splitting near edges / Economical of expensive woods Expensive facing veneers etc	Any One 3 marks TWO 5 marks	

Q	SOLUTION	MARKS	DIAGRAM (IF ANY)
12	Complete sketch to show Shaving	5 marks	
13	Function of A and B A: Hold piece at head - stock, Enable piece to rotate Centre wood on lathe B Enable piece to rotate at Tailstock Centre wood on lathe etc	Function of A or B 3 marks Function of A and B 5 marks	A B
14	Name: Veneers	5 marks	
15	Arrow to show Earth Terminal	5 marks	
16	Arrows to show directions of spoke - shaving	One arrow 3 marks Both 5 marks	
17	Coping Saw	5 marks	

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Q	SOLUTION	MARKS	DIAGRAM (IF ANY)
18	Complete sketch to show tang	5 marks	
19	Protective eye-wear Two activities: Wood turning, Cutting on bandsaw Drilling with drillstand Sanding with sander Spray Painting Welding etc	Any one: 3 marks TWO. 5 marks	
20	Two storage precautions: Dry Away from direct heat Away from dust Away from magnets Away from speakers In container etc.	Any one 3 marks TWO 5 marks	

SECTION A

NOTE:

Divide final mark by 2 on completion of marking of this section

JUNIOR CERTIFICATE 2001 MATERIALS TECHNOLOGY (WOOD)

MARKING SCHEME ORDINARY LEVEL SECTION B

NOTE

Please ensure that totals for each question are divided by TWO before entering marks on marking sheets

Q	Sketches	Notes	Marks
Q1(i)		Any joint suitable for jointing back to rail Sketches	20
Q1(ii)		Any tool used in making joint Sketch Name tool and list parts	10 5
Q1(iii)		Use of template or grid to transfer shape to rectangular board Notes and sketches on how to use template	5

Q	Sketches	Notes	Marks
	1	1. Overall height	4
Q2(i)		2. Overall width of base	4
		3 Overall width of back	4
	1 	4. Slope at top	4
	Elevation	5 Chamfer at base	4
Q2 (ii)	[-	1 Overall heights	4
		2. Width of base	4
		3. Sloping lines (2 x 2 Marks)	4
	End Elevation		
Q2 (iii)	DIMENSIONS	ONE mark for each correct dimension (4x 1 mark)	4
	ARROWHEADS	One marks for each	4
		correct arrowhead (4x 1 mark)	

Q	Sketches	Notes	Marks
Q3 (i)	Sketch	 Adult beetle lays eggs Eggs hatch into grubs/worms The grub eats its way into the wood causing great damage to the wood Notes and Sketches Either notes or sketches 	20 15
Q3 (ii)		To prevent attack Treat the wood with a preservative containing an Insecticide Or Use a gloss varnish on the new wood to help prevent attack	12 OR 12
Q3 (iii)		To prevent Re-infestitation Examine extent of attack and replace infected woods or plywood if necessary Treat all infected areas and surrounding wood liberally with insecticide Monitor for further infestitation and retreat	8

Q	Sketches	Notes	Marks
Q4 (i)		 Join the diagonals to determine centre of piece. Remove corners to allow for safe turning. 	4
		(2 x 6 marks)	12
Q4 (ii)		To determine same diameter Measure diameter with calipers	4
		Sketch	4
Q4 (iii)		THREE safety Precautions: 1. No loose clothing 2. Wear eye	Any three 4
	 	protection 3 One person at the lathe 4. Long hair tied back	4
		5. Wear dust mask etc	4

Q	Sketches	Notes	Marks
Q4 B			
		Name of Carving.	
Q4 (i)		Incised Carving	4
		Transferring Shape:	
Q4 (ii)		Sketch	12
	Carbon Paper	Notes Carbon paper to transfer design on to wood. Use of grid paper	8
Q4 (iii)	OR	Vee-Tool OR Vemer	
		Sketch	12
	 	Name Parts	4

Q	Sketches	Notes	Marks
Q5(i)		To remove rail Sketch Notes	8
Q5 (ii)		Marking - out tool Sketch	12
Q5 (iii)		Alternative design for back Sketch	12

Please ensure that totals are divided by TWO before entering marks on marking sheets