## 3.16 WOODWORK (444) More Past Papers: Visit - www.elimucentre.com 3.16.1 Woodwork Paper 1 (444/1)

## SECTION A (40 marks)

Answer **all** the questions in this section in the spaces provided.

1	(a)	List <b>two</b> levels of qualifications of Technical Personnel in the woodwork industrial	stry. (2 marks)			
	(b)	State <b>four</b> factors that determine the appearance of grains in timber.	(2 marks)			
2	Sketch	Sketch and label a wing divider. (4 marks				
3	With th	With the aid of sketches differentiate between chamfering and rounding as used in shaping. (4 marks)				
4	Describe the following terms as used in timber:					
	(a)	texture;				
	(b)	figure.				
5	(a)	State <b>two</b> functions of a jointer.	(2 marks)			
	e.					

EXTINGUISHING AGENTS	CLASS OF FIRE
Water and sand	
Chemicals and foam	

Table 1

Fill column 2 with the appropriate class of fire. (2 marks)

- 6 (a) State **four** characteristics of lacquers.
  - (b) Classify the following types of pencils as either soft, medium or hard: 4H, 3B, B, HB, 2B, 2H. (3 marks)

SOFT	MEDIUM	HARD

- 7 Sketch a cross-sectional view of each of the following widening joints.
  - (a) Rebated tongue and groove joint;

(2 marks)

(2 marks)

- (b) Splayed butt joint.
- 8 State **three** precautions to be observed to ensure that there is no damage to a saw blade when in use. (3 marks)
- 9 Sketch the following types of bits and state the function of each.
  - (a) flat bit; (2 marks)
  - (b) countersink bit. (2 marks)
- **10 Figure 1** shows a polygon ABCDE.

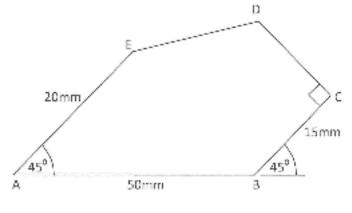


Figure 1

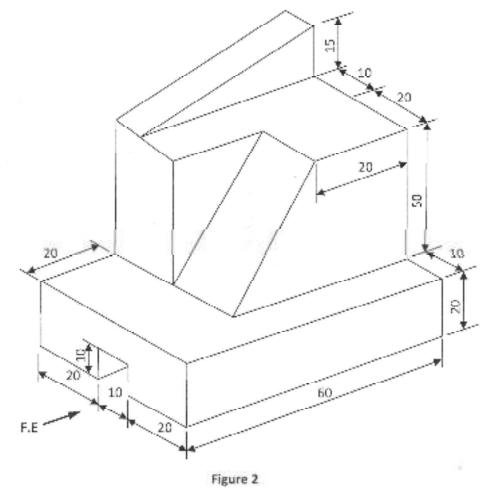
Enlarge the figure such that AB is 80 mm long.



## SECTION B (60 marks)

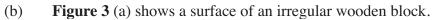
Answer question 11 on  $A_3$  paper provided and any other three questions from this section in the spaces provided after question 15. Candidates are advised not to spend more than 25 minutes on question 11.

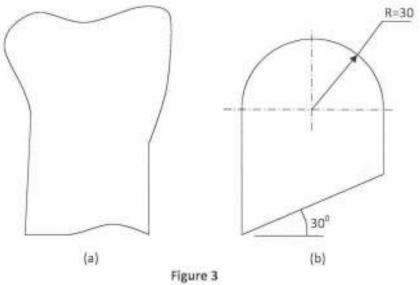
11 Figure 2 shows a shaped block.



In first angle orthographic projection, draw the three views of the block to a scale of 1:1. Insert any six dimensions. (15 marks)

12	(a)	State three p	precautions to	be observed	when using	a steel tape measure.	(3 marks)
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Using a pair of compass and a ruler and to a scale of 1:1

	(i)	) Outline the construction procedure to produce the shape in figure 3 (b). (7 ma			
	(ii)	Construct and mark out the shape shown in figure 3 (b).	(5 marks)		
(a)	Expla	in three factors to consider when grading timber for use.	(5 marks)		
(b)	State	four purposes of a primer coat as used in painting.	(4 marks)		
(c)	Using	g labelled sketches, show the difference between blockboard and plywor			
			(6 marks)		
(a)	State	six benefits of starting a small scale business in rural areas.	(6 marks)		

(b) **Figure 4** shows pictorial views of wall mounted shelf. All members are 22 mm thick softwood.

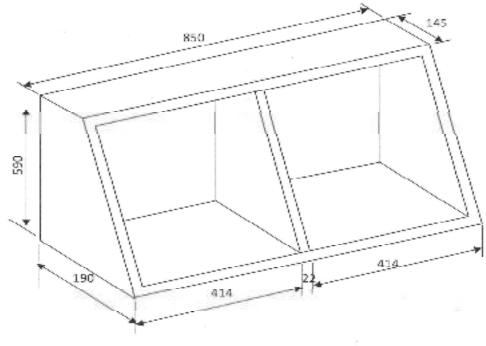


Figure 4

Prepare a cutting list for purchasing the timber required for the shelf. (9 marks)

- 15 (a) With the aid of labelled sketches, describe the ripping and cross cutting operations on a piece of timber. (8 marks)
  - (b) State **two** advantages and **two** disadvantages of quarter sawing method of timber conversion. (4 marks)
  - (c) List **three** precautions to be observed to prevent splitting the work piece when making a hole using a chisel. (3 marks)