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S6082 June W.A.S.S.C.E. 2001 TECHNICAL DRAWING 2 2½ hours

Name

Identification Number

THE WEST AFRICAN EXAMINATIONS COUNCIL

West African Senior School Certificate Examination

June 2001

TECHNICAL DRAWING 2

21/2 hours

PRACTICAL DRAWING

The first ten minutes of this test is for you to read through the questions. During this time, you are not allowed to start writing.

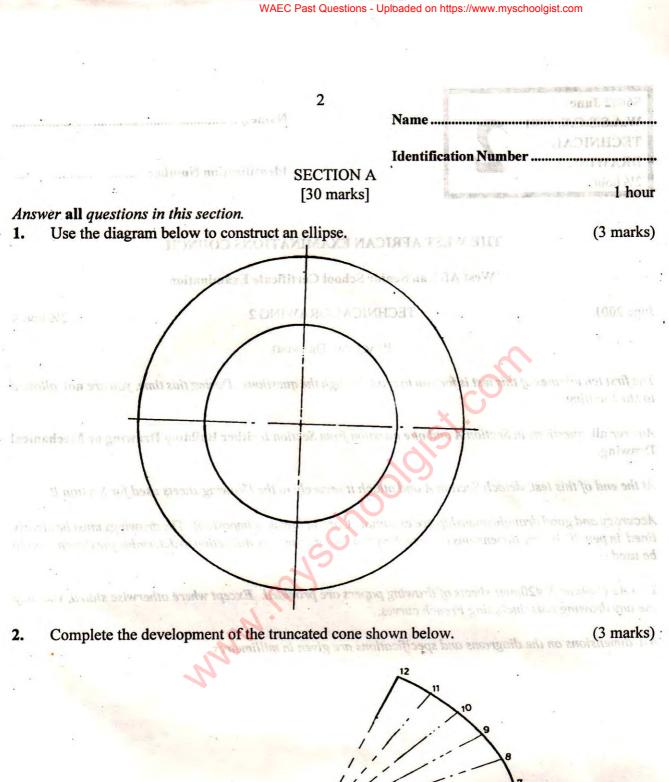
Answer all questions in Section A and one question from Section B either Building Drawing or Mechanical Drawing.

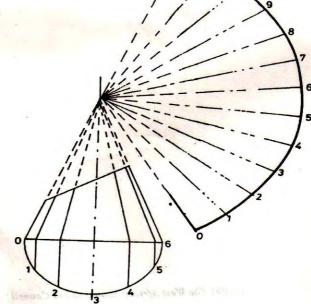
At the end of this test, detach Section A and attach it securely to the Drawing sheets used for Section B.

Accuracy and good draughtsmanship are essential. Careful layout is important. The drawings must be clearly lined in pencil. Where dimensions are ommited, you should use your discretion to determine the dimensions to be used.

Two A2 (594mm X 420mm) sheets of drawing papers are provided. Except where otherwise stated, you may use any drawing aids, including French curves.

All dimensions on the diagrams and specifications are given in millimetres.





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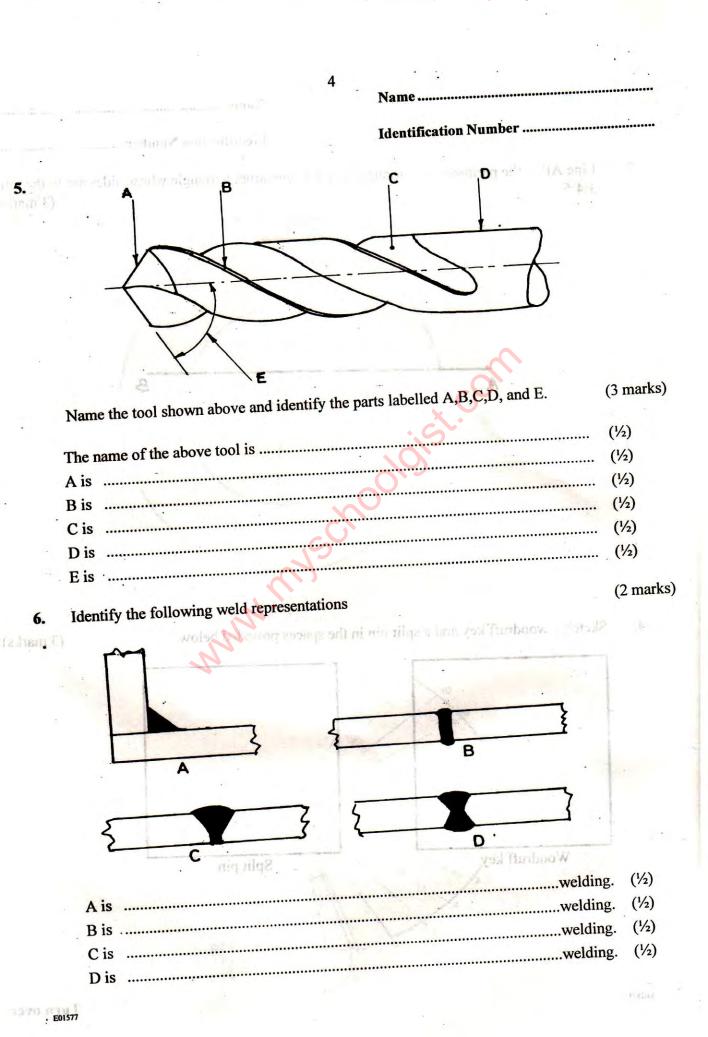
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Name

Identification Number

3. Line AB is the perimeter of a triangle, use it to construct a triangle whose sides are in the ratio (3 marks) 3:4:5.

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Name

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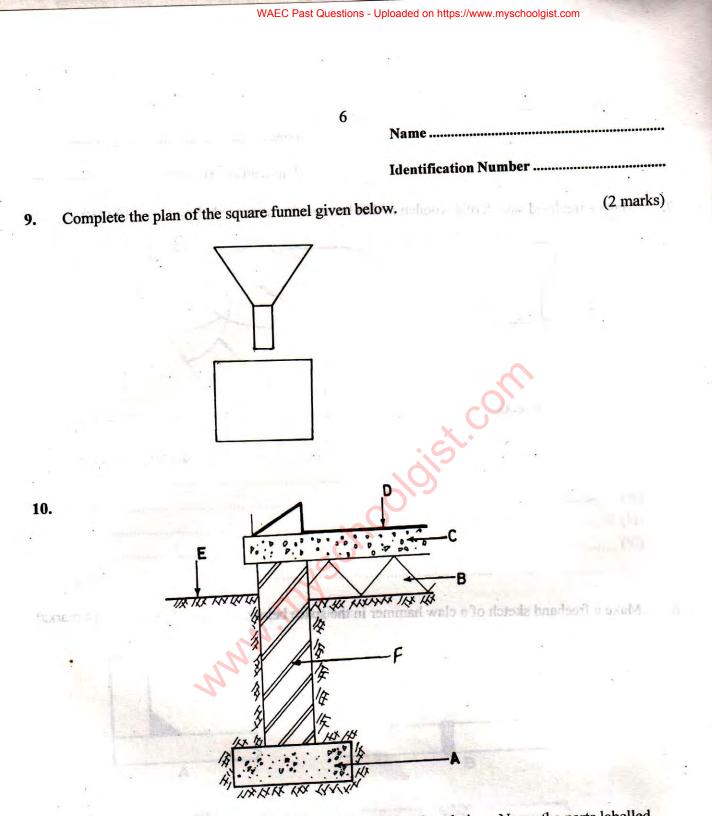
Identification Number

7. Make a freehand sketch of a wooden mallet hammer in the space below. (4 marks)

8. Make a freehand sketch of a claw hammer in the space below.

(4 marks)

The figure above shows a section through a building foundation. Name in parts labelled \.R.C.D.F and F.



The figure above shows a section through a building foundation. Name the parts labelled (3 marks A,B,C,D,E and F.

Α	
B	
C	
D	
Е	
F	

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NSTG

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7

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YOU WILL BE PENALIZED SEVERELY IF YOU ARE FOUND LOOKING AT THE NEXT PAGE BEFORE YOU ARE TOLD TO DO SO.

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i v thread wain slab 140 deep

150 thick reinferred concrete
300 eaves projection
800 x 150 parapet with 20 remunt plaster at the edge of slab all run

A saume suitable dimensions where data are not given

a floot plate of the building to a scale 1:100

left hand side elevation of the building on a scale 1.100

sectional elevation on X - X to a scale 1:100

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SECTION B

11/2 hours

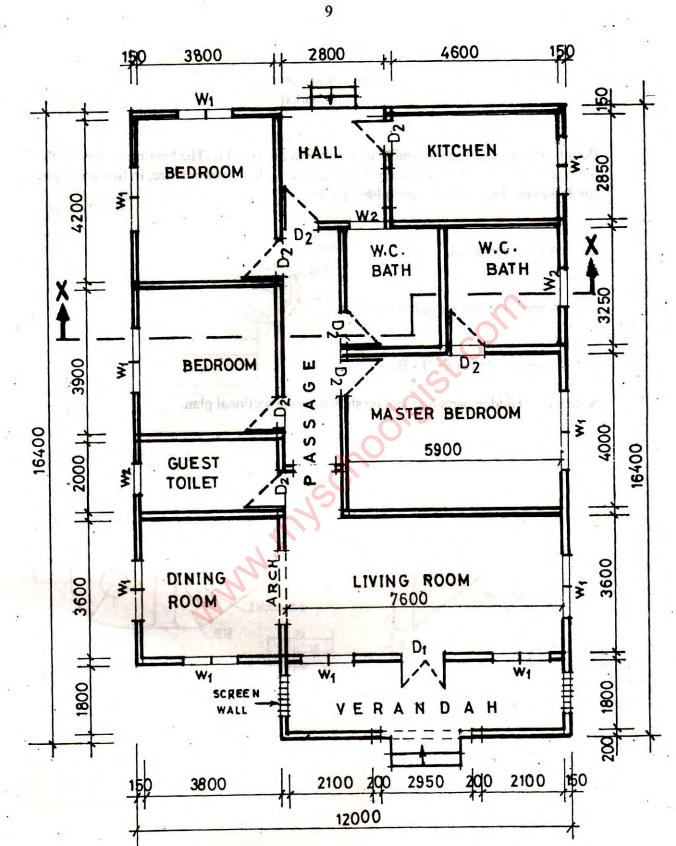
Answer one question only from this section either Building Drawing or Mechanical Drawing.

BUILDING DRAWING [70 marks]

The diagram on page 9 shows the plan of a residential building. Study the specifications and use them to answer the following questions.

FOUNDATION:		800 x 250 Concrete strip laid over 1000 below ground level.
Walls	10Å	All walls are 150 thick sandcrete hollow blocks.
Floor	13.0	300 hardcore; 150 thick concrete slab;
		40 cement sandscreed;
		8 thick ceramic floor tiles.
Doors	:	Main entrance: - 1200 x 2100 Aluminium metal frame with glass.
* = +		Inside: 900 x 2100 x 40 flush wooden in 100 x 50 timber frames
	2	Back: 900 x 2100 fabricated half-glazed metal door.
WINDOWS	ι.	All glass louvered with aluminium carriers in 100 x 50 timber frames
	× ?	The glass for view with ardining and carriers in 100 x 50 timber matters
		W, 1400 x 1200
		W ₂ 800 x 500
Lintel		150 x 200 reinforced concrete.
Stairs	:	reinforced concrete: 150 riser,
		300 thread, waist slab 150 deep,
		300 footing below ground level.
Roof		160 thick reinforced concrete
ROOT	•	300 eaves projection
		800 x 150 parapet with 20 cement plaster at the edge of slab all round.
5.0 C	:	Height of ceiling from unfinished floor level 2850
Note	e.	Assume suitable dimensions where data are not given.
Draw	•	(a) a floor plan of the building to a scale 1:100
		C. Prese Prese of the ownering to a pour first
		(b) left hand side elevation of the building on a scale 1 : 100
h.0		(c) sectional elevation on $X - X$ to a scale 1 : 100.

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SKETCH PLAN

SCALE 1:100

Turn over

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MECHANICAL DRAWING [70 marks]

Details of a bearing bracket and bolts are shown on page 11. The bearing is fixed to the bracket by two bolts. Do not copy the given <u>views</u>, but draw full size, in first angle projection the following views of the assembled parts.

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(a) A front elevation.

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(b) A sectional end elevation on A - A.

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(c) A sectional plan on B - B.

SCALE

Note: Hidden parts may not be shown on the sectional plan.

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