Design and Technology 608/1
Paper 1
Practical
(INTERNAL AND EXTERNAL CANDIDATES)

TIME: 1 hour 30 minutes
MARKS: 100

Instructions to candidates

1. Pull out the Drawing Answer Sheet from the question paper.
2. Draw the borderline and Title Block.
3. Print your Name, Examination Number, School/Centre Name and Code on the Title Block.

NOTE: The Drawing Answer Sheet should be properly titled/printed.

4. All your answers should be on the Drawing Answer Sheet provided and must be numbered.
5. There are two sections in this question paper, Section A and Section B.
6. Question 1 from section A is compulsory and you are required to answer two questions from section B.
7. Answer question 1 on one side of the Answer Sheet and those from Section B on the other side.
8. There are two printings of the orthographic drawing questions; one in FIRST ANGLE PROJECTION and the other in THIRD ANGLE PROJECTION. The Home Subject Teacher should instruct the candidates which projection should be used.

9. All dimensions are in millimetres unless stated otherwise.
10. Question 1 carries 25 marks and Section B questions carry 15 marks each.

Information to candidates

Cell phones are not allowed in the examination room.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.
Section A

Compulsory question
1. Figure 1 shows an isometric view of a GROOVED BLOCK.

DO NOT copy this view but draw in either FIRST ANGLE or THIRD ANGLE PROJECTION the following views.

(a) A sectional elevation looking the direction of arrow FE. The direction of the section being indicated by X – X.
(b) An end elevation looking in the direction of arrow EE.
(c) The plan as seen from arrow P.
(d) Show six important dimensions.

Figure 1
SECTION B
Answer any two questions from this section.

PLANE GEOMETRY

2 Your six (6) year old cousin has just seen friends in the neighbourhood playing with kites and is bothering you to make one for him. As a Design and Technology student, make a graphic design for her to see that you will soon make one for her. Assuming that you have two thin sticks measuring 100mm and 80mm which will act as diagonals of the kite.

3 You have been asked to design a logo for a new school opening in your area. The design is NOT to have sharp corners but consists of straight lines and arcs. Using geometrical constructions, make a profile of the logo clearly showing all geometrical constructions.

NOTE: Use your own measurements.
SOLID GEOMETRY

4 Figure 2 (a) shows a Truncated Hexagonal Prism in FIRST ANGLE PROJECTION.

(a) Copy the figure in full size showing all constructions.
(b) Draw an end elevation viewed from the direction of arrow E.

Figure 2 (a)
4 **Figure 2 (b)** shows a Truncated Hexagonal Prism in THIRD ANGLE PROJECTION.

(a) Copy the figure in full size showing all constructions.

(b) Project an end elevation viewed from the direction of arrow $E$. 

![Figure 2 (b)](image-url)
5  **Figure 4 (a)** shows a Truncated Cylinder in FIRST ANGLE PROJECTION.

(a) Copy the given views.

(b) Draw the development of the cylinder with the seam **T – T**.

![Figure 4 (a)]
Figure 4 (b) shows a Truncated Cylinder in THIRD ANGLE PROJECTION.

(a) Copy the given views.

(b) Draw the development of the cylinder with the seam $T - T.$
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