



(University of Choice)
MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY
(MMUST) MAIN CAMPUS

UNIVERSITY SPECIAL EXAMINATIONS,

2021/2022 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE IN CIVIL ENGINEERING

COURSE CODE: CSE 112

COURSE TITLE: ENGINEERING DRAWING II

DATE: **FRIDAY 29TH APRIL 2022**

TIME: **8.00 – 10. AM**

INSTRUCTIONS :

1. Answer any **FOUR** Questions
2. Marks for each question are indicated in the parenthesis.
3. Examination duration is **2 Hours**

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

QUESTION ONE (10 MARKS)

A vertical cylinder of 50mm diameter and height 70mm is resting on its base on H.P, is completely penetrated by another cylinder of 32mm diameter with 15mm extension on both sides of the vertical cylinder such that their axes bisect each other at right angles and are 6mm apart. Draw the projections showing curves of interpenetration, assuming the axis of penetrating cylinder to be parallel to both H.P and V.P.

QUESTION TWO (10 MARKS)

Draw the projections of a cube of 35mm side, resting on one of its faces (bases) on H.P., such that one of its vertical faces is parallel to and 10mm in front of *V.P.*

QUESTION THREE (10 MARKS)

A hexagonal prism with side of base 25mm and 50mm long is resting on a corner of its base on HP. Draw the projections of the prism when its axis is making 30° with HP and parallel to V.P.

QUESTION FOUR (10 MARKS)

A Pentagonal prism of side of base 20 mm and height 50 mm stands vertically on its base with a rectangular face perpendicular to V.P. A cutting plane perpendicular to V.P and inclined at 60° to the axis passes through the edges of the top base of the prism. Draw the development of the lateral surface of the cut prism.

QUESTION FIVE (10 MARKS)

A regular hexagon thin plate of 40mm side has a circular hole of 45mm diameter in its center. It is resting on one of its corner in H.P. Draw its projections when the plate surface is vertical to HP and 30° to V.P.