



MACHAKOS UNIVERSITY

University Examinations for 2021/2022

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF BUILDING & CIVIL ENGINEERING
SECOND YEAR FIRST SEMESTER EXAMINATION FOR
BACHELOR OF SCIENCE (CIVIL ENGINEERING)
ECV 200: ENGINEERING DRAWING II

DATE: 15/12/2021

TIME: 11:00 – 1:00 PM

INSTRUCTIONS:

- This paper comprises of *FOUR* questions. Answer *TWO* questions
- Question one is **compulsory** and carry 30 marks
- Answer any other *ONE* question

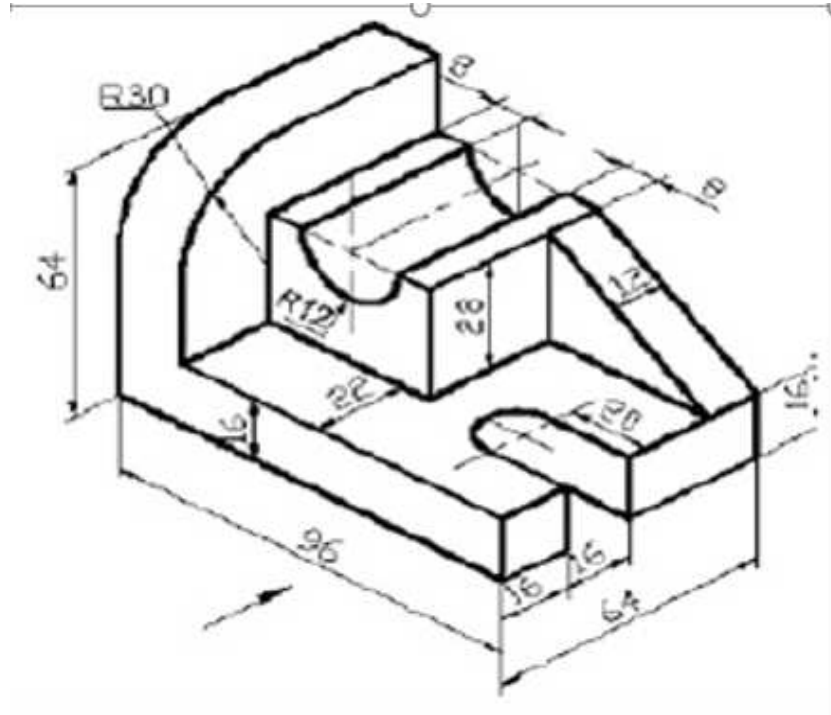
QUESTION ONE (COMPULSORY) (30 MARKS)

- a) A cone OF diameter 60mm and height 70mm is lying on the ground with one of its generators its parallel to v.p. It is cut by a vertical section plane inclined at 40 degrees to the V.P. Draw the sectional front view, top vie and true shape of the section. (15 marks)
- b) A pentagonal pyramid, side of base 25 mm and height 60 mm has one of its slant (triangular) faces on the H.P. and the edge of base contained by that slant edge makes an angle 30 degree to the V.P. Draw its projections. (15 marks)

QUESTION TWO (20 MARKS)

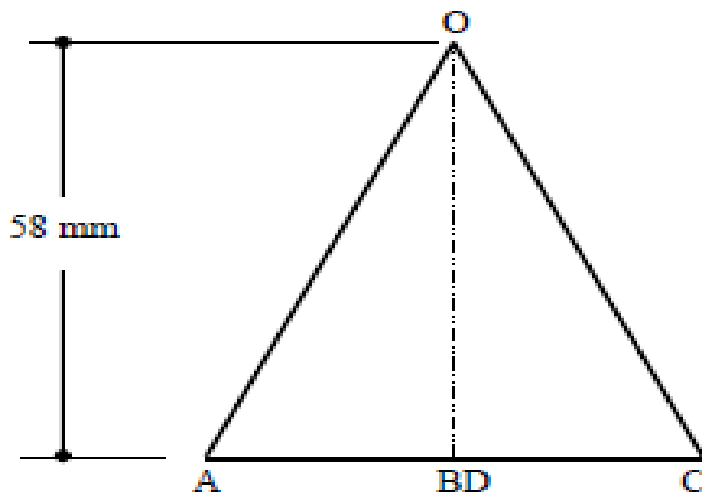
- a) The figure below shows an isometric view of an object. Draw the following views. i) Front view in direction of arrow, ii) Top view, and iii) Side view

right.



QUESTION THREE (20 MARKS)

- a) Draw the isometric projection of a cone of base 40 mm diameter and height 58 mm when it rest with its base on H.P. Figure shown below.



QUESTION FOUR (20 MARKS)

- a) Draw the projections of a regular pentagon of side 40 mm which has its surface inclined at 30° to VP and a side parallel to VP and inclined at 60° to HP.