



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL & AUTOMOTIVE ENGINEERING

**UNIVERSITY EXAMINATION FOR:**

DIPLOMA IN MARINE ENGINEERING

EMR 2116: TECHNICAL DRAWING II

END OF SEMESTER EXAMINATION

**SERIES:** APRIL 2016

**TIME:** 3 HOURS

**DATE:** 15 May 2016

## Instructions to Candidates

You should have the following for this examination

*-Answer Booklet, examination pass and student ID, Drawing paper A2*

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

**Do not write on the question paper.**

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## **Question ONE**

Figure QN1 shows parts of a TOOL POST. Assemble the parts with the screw fully fastened and draw FULL SIZE in First angle orthographic projection the following views;

(a)Sectional front elevation along vertical cutting plane viewed from C

(b)End elevation

(c)Plan

Include SIX leading dimensions and symbol of projection.

(30 marks)

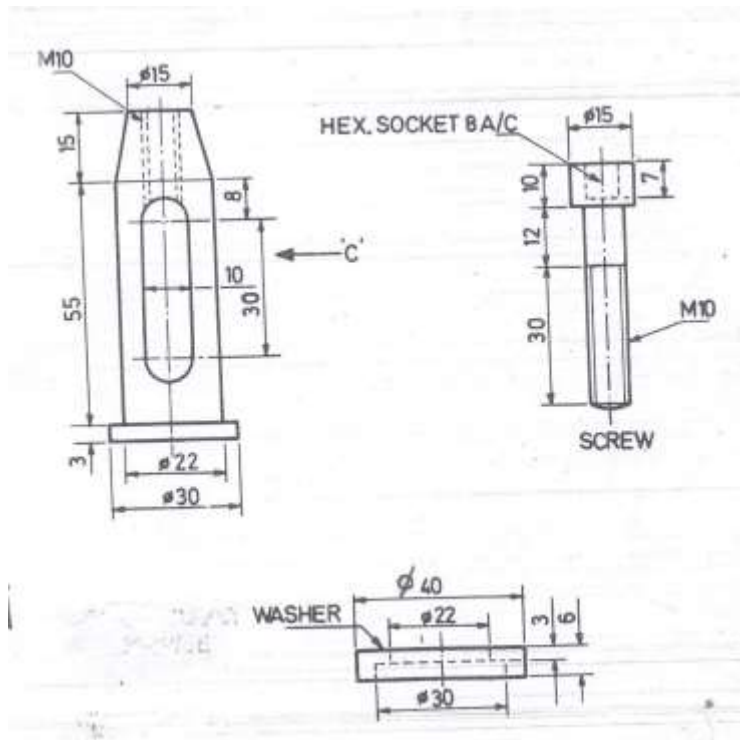


Figure Qn1.

### Question TWO

A pipe 50mm diameter meets a square as shown in Figure QN2. Copy the given views and draw

- Complete plan
- Curve of interpenetration
- Surface development of the branch pipe

(20 marks)

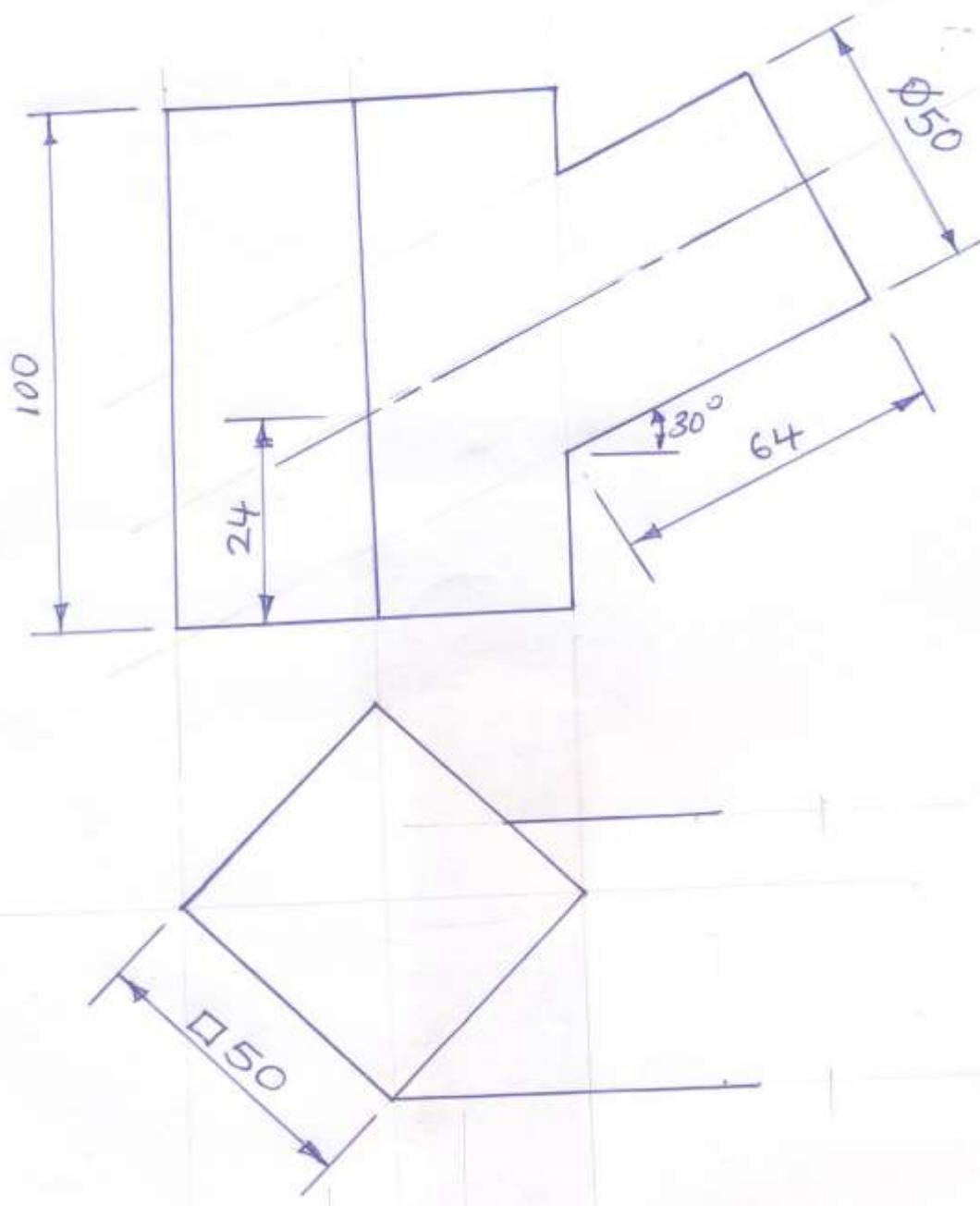


Figure QN2.

### Question THREE

Figure QN3 shows a truncated pentagonal base prism. Copy the given views and draw:-

- (a) Complete plan
- (b) End elevation viewed from arrow EE
- (c) True shape
- (d) Surface development of the truncated prism

[20 marks]

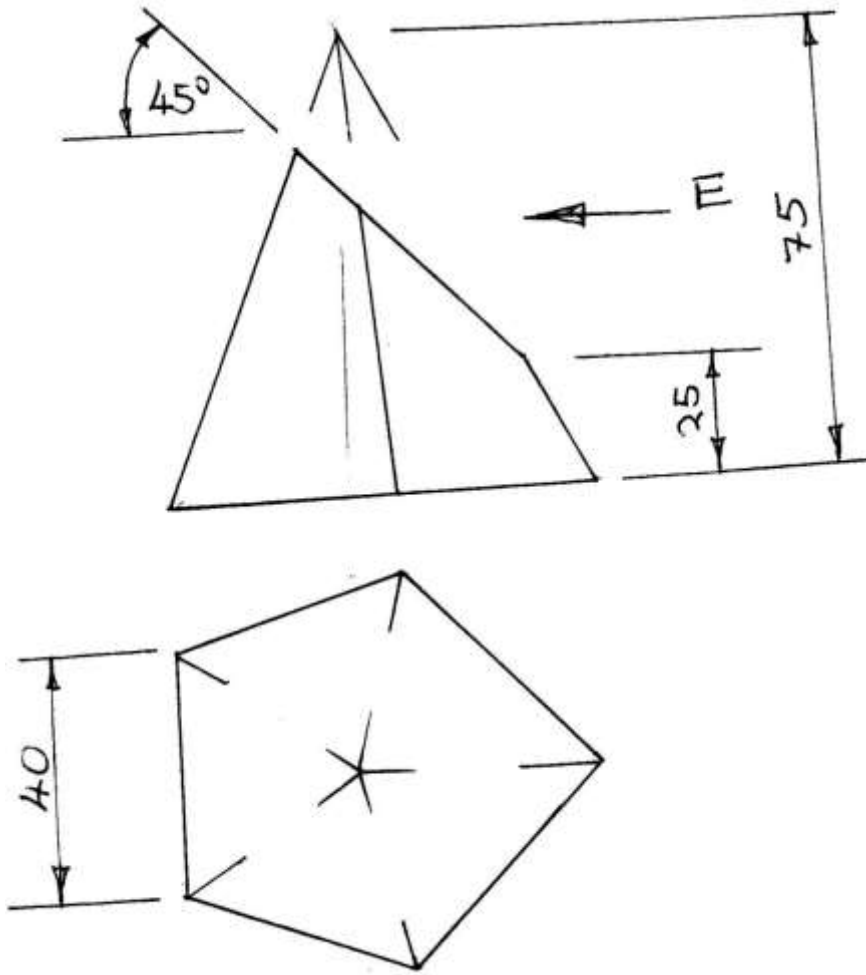
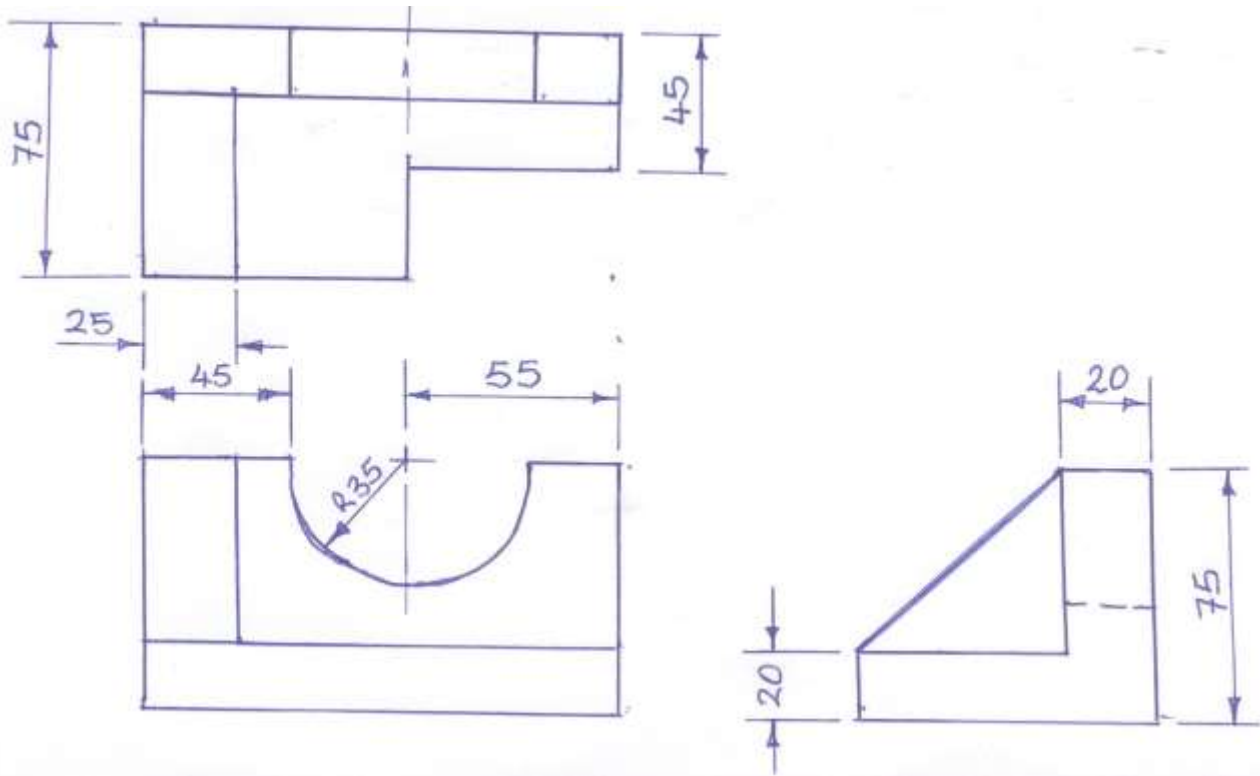


Figure QN3.

#### Question FOUR

Figure QN4 shows three views of a BRACKET in third angle projection. Draw an ISOMETRIC view of the bracket exposing most of the features.

(20 marks)



**Figure QN4**

**Question FIVE**

Three views of a BRACKET drawn in First angle orthographic projection are shown in Figure QN5. Draw an OBLIQUE view of the bracket taking oblique rules into consideration.

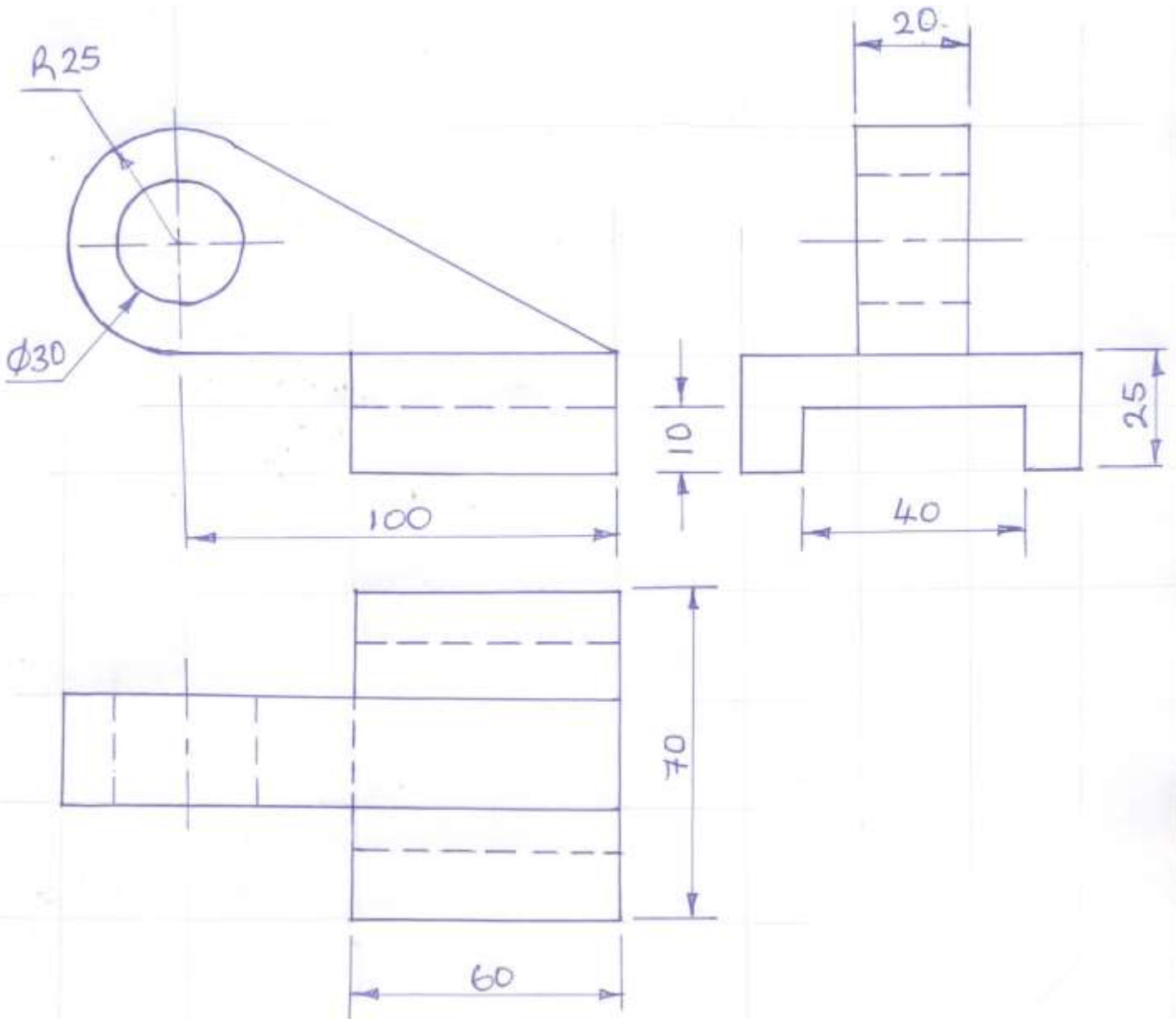


Figure QN5.