

2502/104    2509/104  
2503/104  
**ENGINEERING DRAWING I**  
Oct./Nov. 2019  
Time: 3 hours



**THE KENYA NATIONAL EXAMINATIONS COUNCIL**

**DIPLOMA IN MECHANICAL ENGINEERING (PLANT OPTION)**  
**DIPLOMA IN AUTOMOTIVE ENGINEERING**  
**DIPLOMA IN CONSTRUCTION PLANT ENGINEERING**

**MODULE I**

**ENGINEERING DRAWING I**

**3 hours**

**INSTRUCTIONS TO THE CANDIDATE**

*You should have the following for this examination:*

*Drawing papers;*

*Drawing instruments.*

*This paper consists of FIVE questions in TWO sections; A and B.*

*Answer ALL questions from section A and any TWO questions from section B.*

*Maximum marks for each part of a question are as shown.*

*Candidates should answer the questions in English.*

[www.knec.org.ke](http://www.knec.org.ke)

**This paper consists of 6 printed pages.**

**Candidates should check the question paper to ascertain that  
all the pages are printed as indicated and that no questions are missing.**

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[www.juniorv.co.ke](http://www.juniorv.co.ke)

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SECTION A

(COMPULSORY)

Answer ALL questions from this section.

1. Figure 1 shows an isometric block. Draw the following in first angle projection:

- (a) A front elevation in the direction of arrow A.
- (b) An end elevation in the direction of arrow B.
- (c) A plan.

- Show hidden details.
- Insert six major dimensions.

(30 marks)

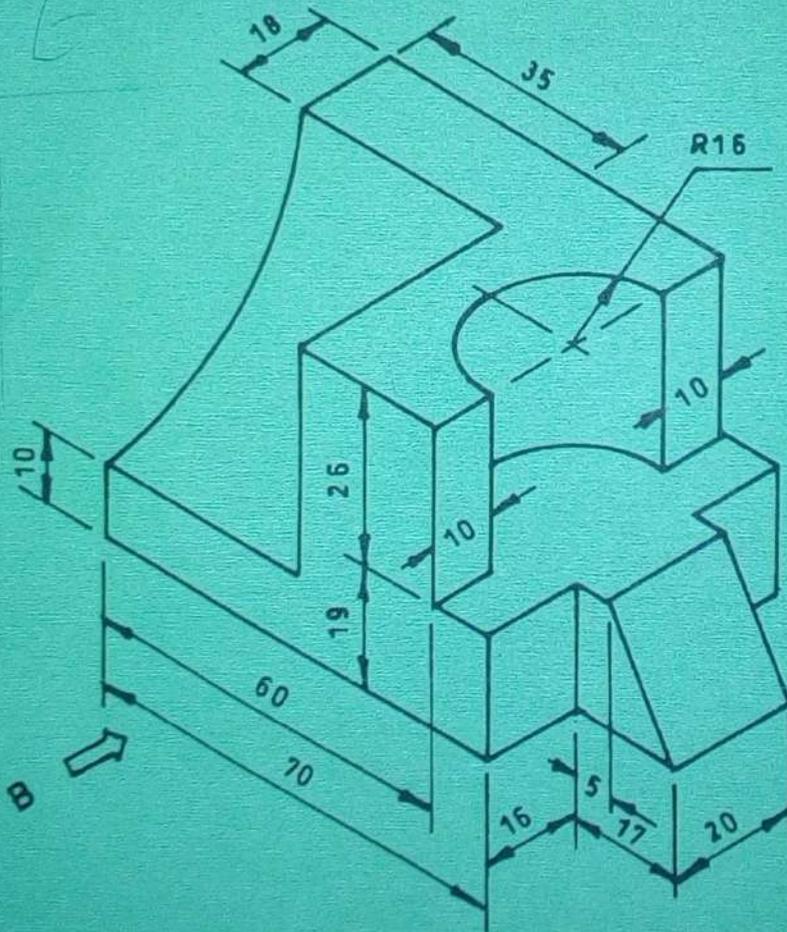


Fig. 1



2. Figure 2 shows two views of the intersection between a cylinder and a square tube. Copy the given views and:

- (a) complete the front elevation;
- (b) complete the plan;
- (c) construct the surface development of the square tube.

(30 marks)

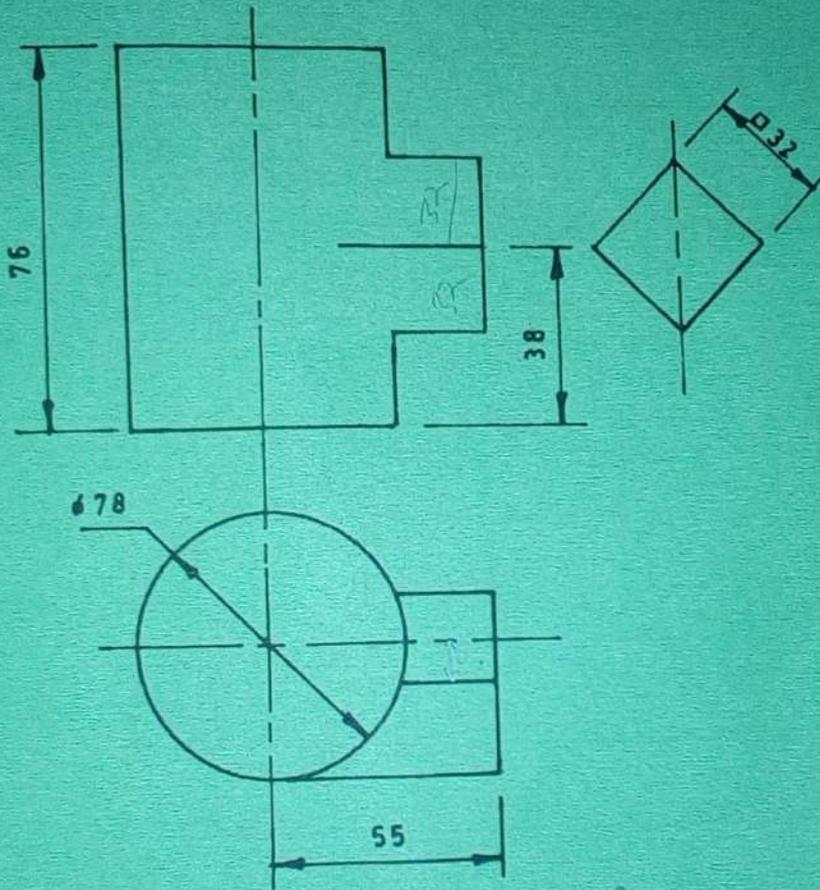
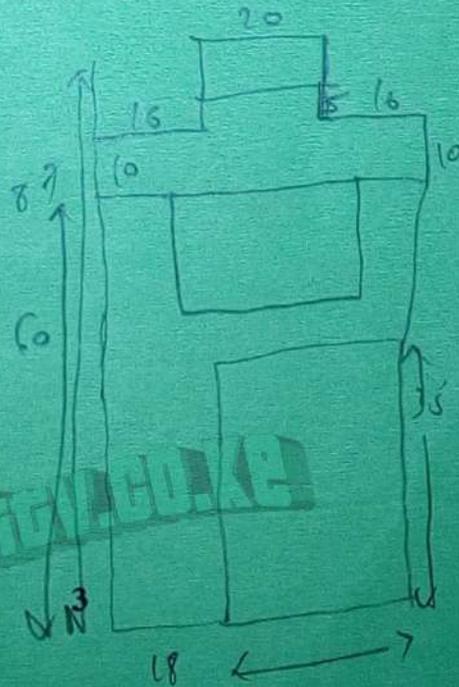


Fig. 2



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## SECTION B

Answer any **TWO** questions from this section.

3. Figure 3 shows two orthographic views of a bearing support. Draw the support in isometric projection with corner X at the lowest position. (20 marks)

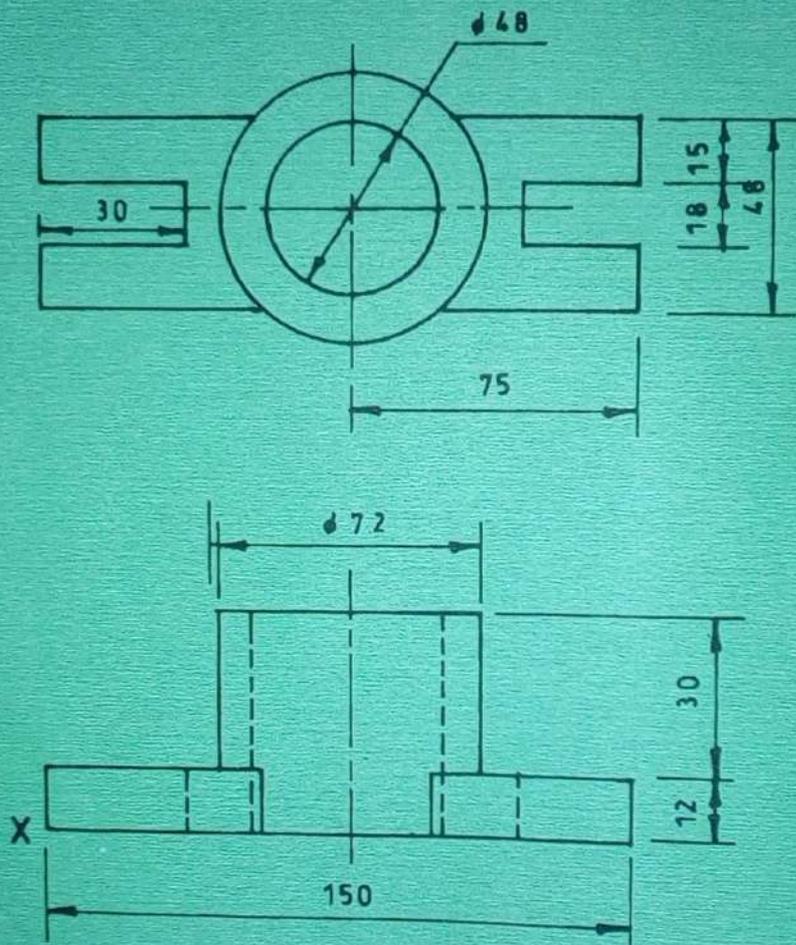


Fig. 3

5. Figure 5 shows a pictorial drawing of a bearing bracket. Draw it in isometric projection. (20 marks)

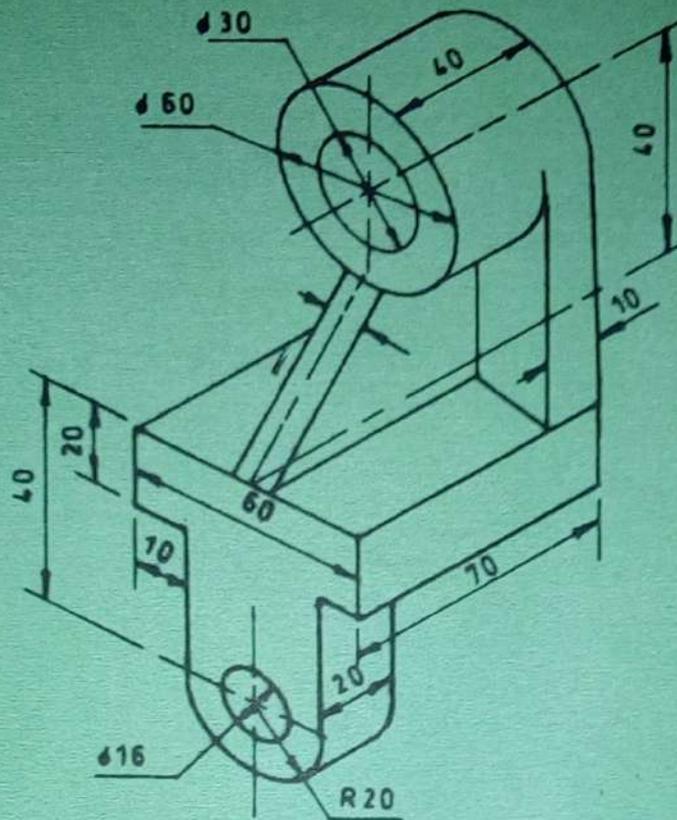


Fig. 5

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