EXAMINATIONS COUNCIL OF ZAMBIA

Examination for School Certificate Ordinary Level

Geometrical and Mechanical Drawing 7040/2
Paper 2

Monday 27 NOVEMBER 2017

Additional Material(s):
A2 Drawing paper (1 sheet)
Standard drawing equipment

Time: 2 hours 40 minutes

Marks: 100

Instructions to Candidates

Print your name, centre number and candidate number in the Title Block at the bottom right-hand side of your drawing paper.

There are two (2) questions in this paper. Answer both questions.

Use both sides of the drawing paper for your answers.

Information for Candidates

The number of marks is given in brackets [ ] at the end of each question or part question.

The insert contains Figure 2 for Section 2.

You have an additional 10 minutes to read carefully the text of Section 2 before answering the questions.

Arcs of circles less than 5mm radius may be drawn freehand.

All dimensions are in millimetres unless otherwise stated.

Cell phones are not allowed in the examination room.

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This question paper consists of 3 printed pages
Section 1 (16 marks)

Candidates are advised to spend not more than 30 minutes on this section of the paper:

1. Two orthographic views of an ANGLE BRACKET are shown in Figure 1.

Do Not copy the views but sketch freehand and in good proportion a pictorial view of the bracket with E in the foreground of the view.

NB: The use of instruments including any form of straight edge when sketching the view or when lining in will be heavily PENALISED.

Figure 1
Section 2  (84 marks)

2 Figure 2 shows in First Angle Projection details of the components of a PULLEY AND BODY ASSEMBLY which are assembled as follows:

The Bush (3) is inserted into the 26mm diameter hole of the Pulley (2) until it lies flush on both ends. This sub-assembly is placed in between the basses of the Body (1) so that 20Ø holes are in alignment.

The Bolt (4) is then inserted through the 20mm hole of the body from the left-hand side until its head is in contact with the body thereby supporting the pulley in position. The Bolt is then secured by the Washer (5) and Hexagonal Nut (6).

With the components assembled as detailed above, draw full size the following views in either first or third angle projection.

(a) A Sectional Front elevation, with plane of section and direction of the required view being indicated at X – X on the end elevation.

(b) A plan as seen in the direction of arrow P.

NOTE: No end elevation is required.

- Suitable dimensions should be estimated where data is not provided. No Hidden details or part lines are required in any view.
- Insert four dimensions as recommended BS 308. These should be of varied character and should include the following: length, height, diameter, details of a Nut or Bolt.

(c) In the lower right hand side of the drawing paper and on the same side on which you have drawn the solution to question 2, draw the Title block and print in it the following details: the Title, your name, Examination number and scale used. Indicate by standard symbol the method of projection used.

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