COURSE CODE	EJT 231
COURSE TITLE	INTRODUCTION TO GRAPHIC COMMUNICATION
DURATION	2 HOURS

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questions in your answer booklet. Each question carries
equal marks.

Q1. An engineer wants to produce a satellite dish in a parabolic shape antenna to receive information by radio waves. With your knowledge in graphic communication;

Draw the shape using the rectangular plate with a length of 120 mm and a breadth of 80mm. **(15marks)**

Q2. A tiling manufacturing company produce tiles of different shapes. You have been asked to produce a pattern in a pentagonal shape. Draw the shape using the semi-circle method and a baseline of 40mm. **(15 marks)**.

Q3. The distance from A - B is the same distance from B-C. If the angle formed at B is 60 ° and is equal to the angle formed at A;

i. Draw the figure if the distance between A- B is 70mm.

ii. Inscribe a circle in the figure drawn. **(15marks)**

Q4. Figure 1 is a metal block of a machine part to be produced. Use the information in Figure 1 to draw the following in the first angle projection.

    i.   Front view in the direction of arrow E

    ii.   Plan

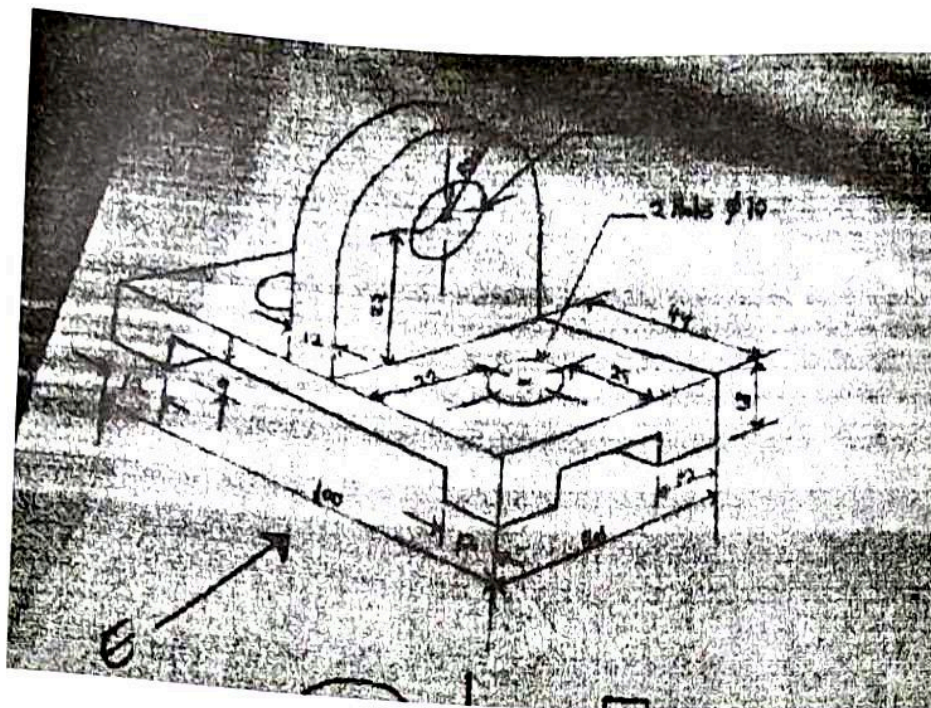   iii.   End view   **(15marks)**

Figure 1: Metal block

Q5. As part of the assessment in metal work, you are to produce a pentagonal-shaped coal pot as a project work. With your knowledge in graphic communication, use Figure 2 to produce the template. **(15marks)**
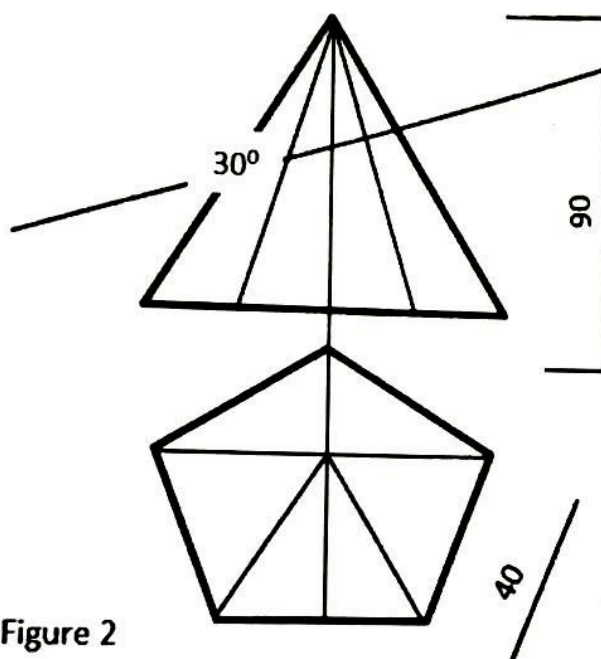

30°

90

40

Figure 2

    a- **Elevation of a pyramid**
    b- **Plan of truncated pyramid**   2

Q6. On a map, a 36km distance is shown by a line 45cm long. Calculate the R.F. and construct a plain scale to read kilometres and hectometres, for a maximum of 12km. Show a distance of 8.3 km on the scale. **(15marks)**

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