



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE WITH INFORMATION
TECHNOLOGY
(MAIN CAMPUS)**

AAG 207: TECHNICAL DRAWING

Date: 7th April, 2014

Time: 8.30AM - 5.00pm

INSTRUCTIONS:

- Answer ALL questions in Section A and ANY OTHER TWO questions in Section B.
- All construction lines should be shown on the paper.
- All dimensions are in millimeters unless stated otherwise.
- All drawings on the question paper are not to scale.
- Draw the MARGIN and TITLE BLOCK ON AT LEAST ONE ANSWER SHEET



SECTION A (30 MARKS) (ANSWER ALL QUESTIONS)

1. (a) Briefly discuss the following terms as applied in technical drawing; (Use sketches where possible)
- a. Orthographic projections (2.5 Marks)
 - b. Oblique projection (2.5 Marks)
 - c. Hidden details (2.5 Marks)
 - d. Isometric axes (2.5 Marks)

(b) Construct a triangle; Base length AB=5cm Altitude L=4cm to vertical angle $\theta=50^\circ$. (10 Marks)

(c) Construct a regular heptagon given side length of 4cm using any method convenient to you. (10 Marks)

SECTION B (36 MARKS) (ANSWER ANY TWO QUESTIONS)

2. Use a suitable scale to draw Fig.Q2 shown below. (18 Marks)

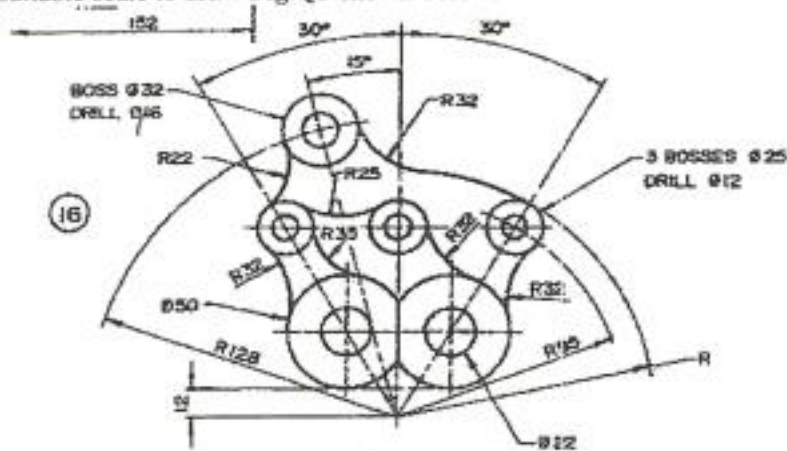


Fig. Q2

3. Use a suitable scale to draw the isometric view shown in Figure Q5 below the way it appears. Do not include the hidden details. (18 Marks)

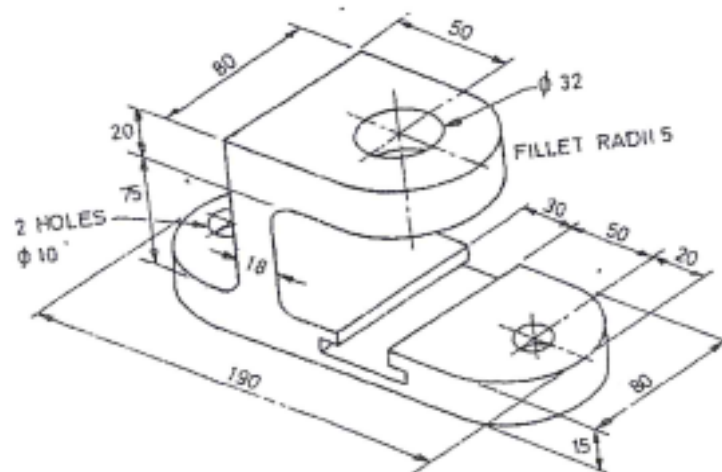


Fig. Q3

Use any convenient scale to draw the orthographic views of Fig. Q3 shown above. (You may draw in 1st or 3rd angle projection). (18 Marks)

Use **FREE HAND** to sketch the isometric view of the orthographic views shown in figures (Figure Q5(a) and Q5(b)) shown below.

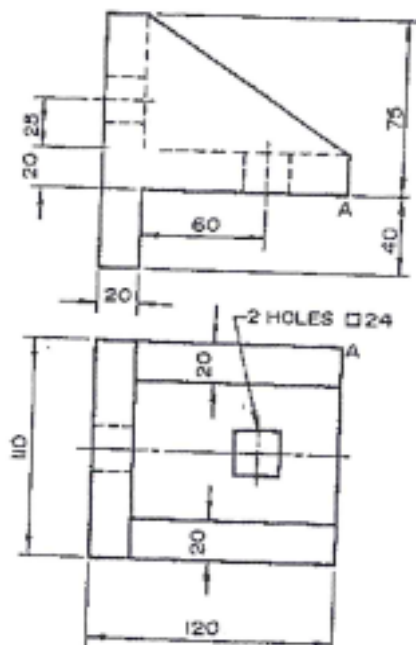


Figure Q5(a)

(8 Marks)

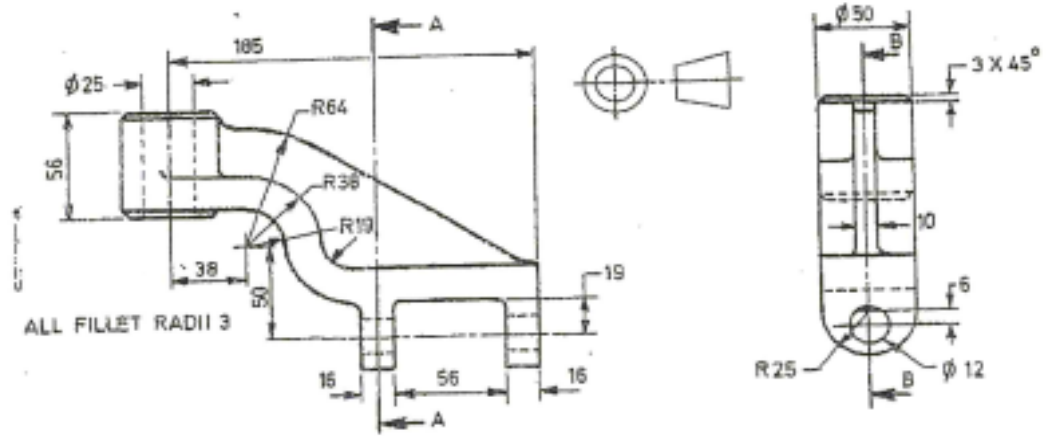


Figure Q5(b)

(10 Marks)