

JK LAKSHMIPAT UNIVERSITY, JAIPUR
INSTITUTE OF ENGINEERING AND TECHNOLOGY
End Term Examination (Backlog), November-December 2015
B. Tech, Semester I

Roll No.....

CE 102 ENGINEERING GRAPHICS

Time: 3 hours

Max. Marks: 100

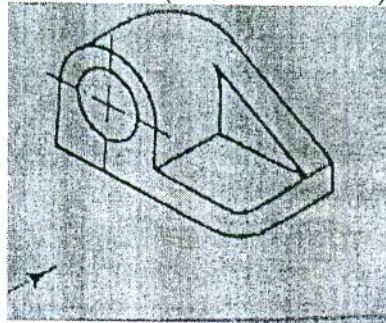
Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.
3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.

- Q.1A Objective type multiple choice questions (10 questions @ 1 mark) 10
- i. To draw a small gear in wrist watch the RF would be
(a) 1:20 (b) 20:1 (c) 1:1 (d) none of the above
 - ii. Centre line is used to indicate
(a) axis of cylinder (b) centre line of the hole
(c) axis of symmetry (d) all of the above
 - iii. A1 size sheet has the dimensions (in mm)
(a) 841 x 1189 (b) 594x841 (c) 420x 594 (d) 148x 210
 - iv. The TV of a rectangular shaped room will show
(a) length and height (b) length and width (c) width and height
(d) none of the above
 - v. A short break line is used to indicate a
(a) broken part (b) part to be broken (c) long part of uniform cross section
(d) short part of non-uniform cross section
 - vi. The command used to draw the multiple copies of an object in a systematic manner
(a) COPY (b) ARRAY (c) MIRROR (d) none of these
 - vii. When the drawing is drawn of the same scale size as that of the object, the scale used is.....
 - viii. Uses of the T-square, set-squares, scale and protractor are combined in the.....
 - ix. In the first angle projection method,
(I) the object comes between the and the.....
 - x. In the third angle projection method,
(I) the comes between the and the observer.
- Q.2 Short answer type questions (4 questions @ 2.5 marks) 10
- I. Differentiate between isometric projection I and isometric projection II.
 - II. What is the ratio of length to width dimension for 'A 'series?
 - III. What are the Standard Views used in orthographic projection?
 - IV. What are the elements of projection?

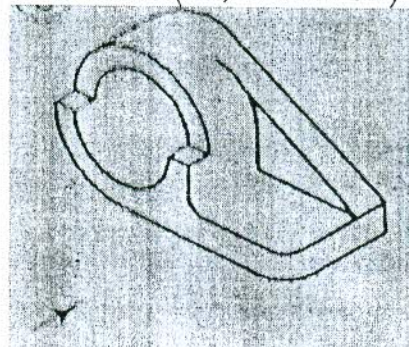
- Q.3A What is isometric projection and what are the advantages of isometric projection? 05
- Q.3B Draw symbolic representations for I- and III - quadrant method of projection. Explain both the methods of projection. 05
- Q.4A Define the following commands
LINE, CIRCLE, ARC, HATCH, MIRROR, ARRAY, ROTATE AND ISOCIRCLE. 05
- Q.4B What are the reasons for implementing a CAD system? 05
- Q.5A What is axonometric projection? What are the types of axonometric projection? 05
- Q.5B Why LSV on PP comes on the right side of FV and RSV on PP comes on the left side of FV in case of I-quadrant method of projection? 05

- Q.6A What do you mean by principal planes? Discuss them. 05
- Q.6B Draw the first angle projection views (FV, TV and SV) of the pictorial views. 05



OR

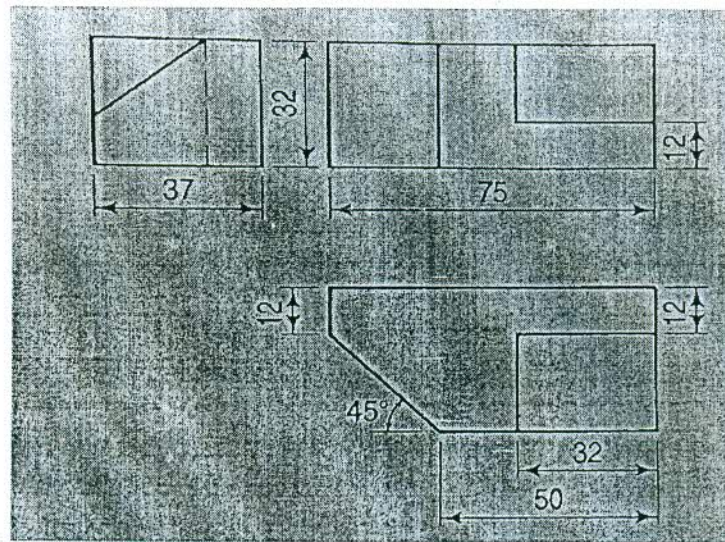
- Q.6B Draw the first angle projection views (FV, TV and SV) of the pictorial views. 05



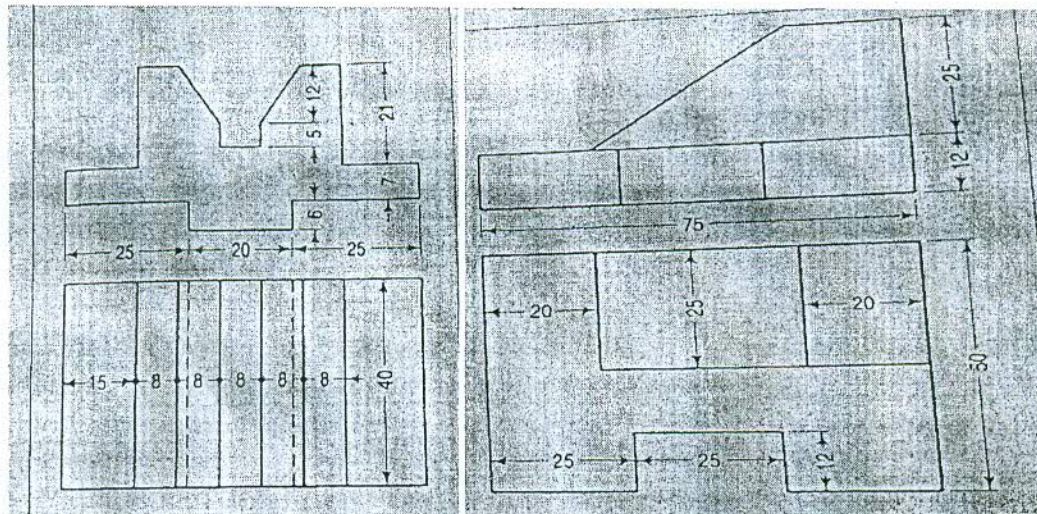
- Q.7A What is orthographic projection and categories of orthographic projection? 05
- Q.7B Write short notes on reference planes, reference line and projector. 05
- OR
- Q.7B What are the relative positions of an object, observer and plane of projection in I and III quadrant methods of projection? 05
- Q.8A Explain the types of line and their applications in detail. 10

Q.9A Draw them in third angle projection method:

10



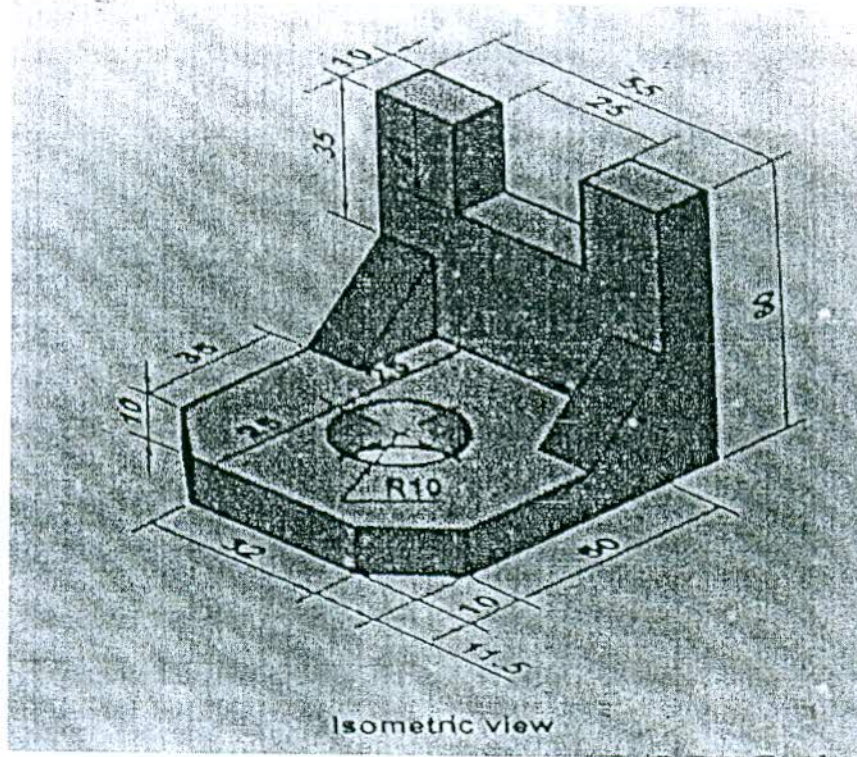
Q.9B Projections of casting of various shapes are given in figures. Draw the isometric views.



OR

Q.9B Figure show the isometric view, draw it's the orthographic projections

10



-ALL THE BEST-