

B.TECH. SEM -II MECHANICAL/ PRODUCTION 2014 COURSE
(CBCS) : SUMMER - 2018
SUBJECT : MECHANICAL ENGINEERING DRAWING *

Day : **Monday**
Date : **11/06/2018**

S-2018-2221

Time : **10.00 AM TO 02.00 PM**
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable calculator is allowed.

Q.1 Explain with neat sketch different 'theory of dimensioning'. **(10)**

OR

Q.1 Explain with sketches of common features of dimensioning curves, holes, chamfers and spot faces. **(10)**

Q.2 Explain with neat sketches different heavy duty keys used in engineering applications. **(10)**

OR

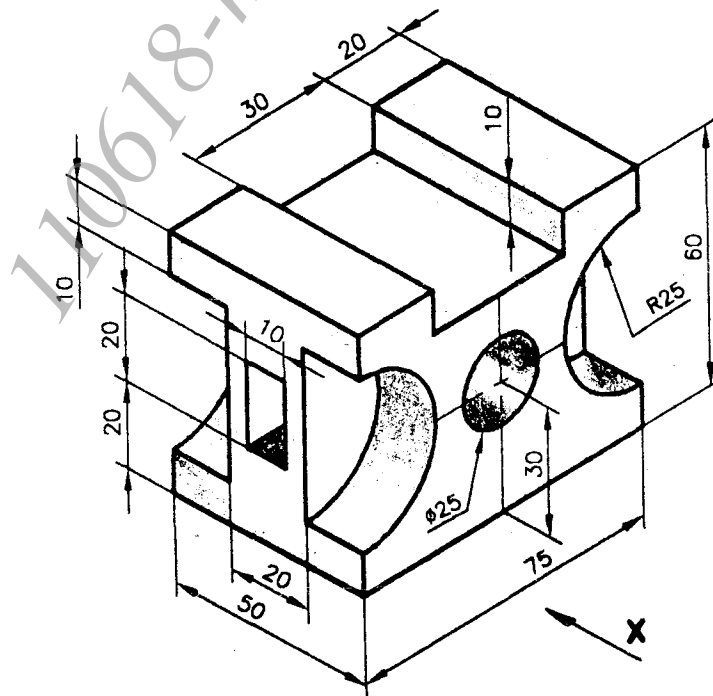
Q.2 Explain with neat sketches different types of 'foundation bolts'. **(10)**

Q.3 Explain with sketches mirror, offset, rotate and break commands with Auto CAD command prompt. **(10)**

OR

Q.3 Explain the different dimensioning commands used in Auto CAD. **(10)**

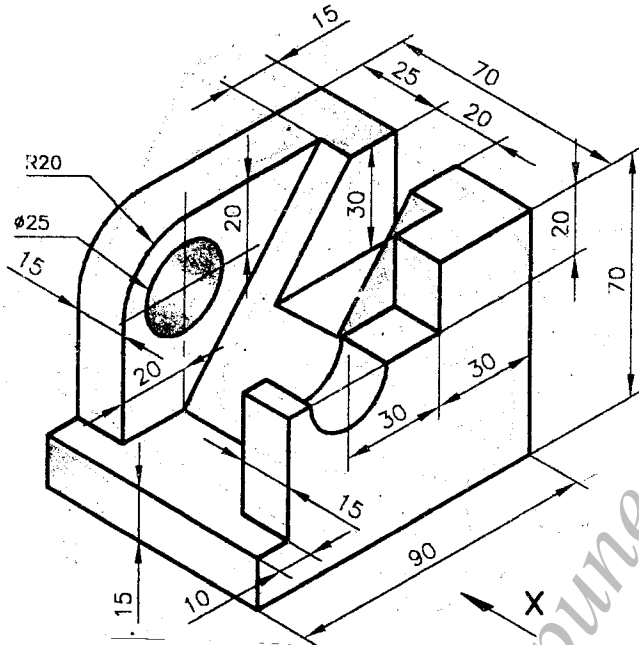
Q.4 Draw Front View and Top View of an object as shown in figure and write command prompt in Auto CAD for the Front View and Top View. **(10)**



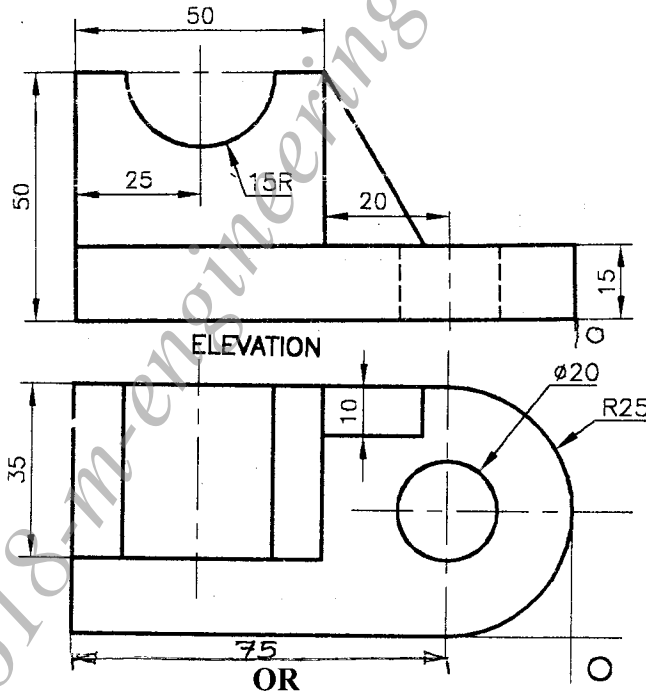
P.T.O.

OR

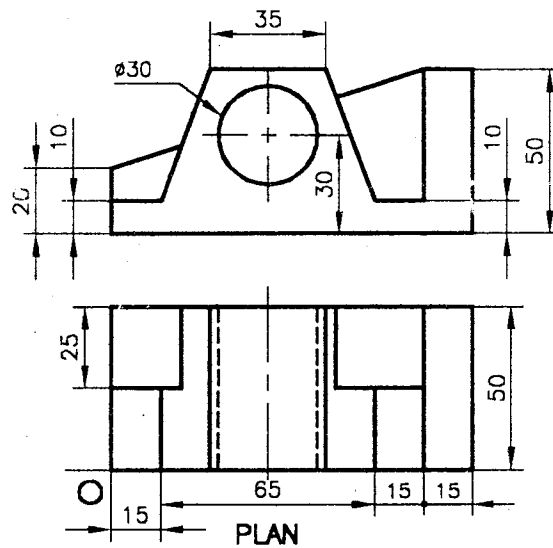
Q.4 Draw Front View and Top View of an object as shown in figure and write (10) command prompt in Auto CAD for the Front View and Top View.



Q.5 Write Auto CAD command prompts to draw isometric view of given (10) orthographic views shown in figure and show dimensions on drawing.



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- Q.6** A square prism having side of base 40 mm, axis length 80 mm is kept on the H.P. with its sides of base equally inclined to V.P. A circular hole of diameter 40 mm is drilled through the prism such that axis of hole is perpendicular to V.P. and parallel to H.P and bisects the axis of square prism. Draw the development of lateral surface of the prism using Auto CAD command prompts. **(10)**

OR

- Q.6** A cone diameter of base 70 mm and height 85 mm rests vertically with its base on the H.P. A square hole of sides 25 mm is cut through the cone. The axis of the hole is 23 mm above the base, perpendicular to V.P. and parallel to H.P. The faces of the square hole are equally inclined to H.P. Draw development of lateral surface of cone with hole using Auto CAD command prompts. **(10)**

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