S. B. Roll. No.....

ENGINEERING DRAWING-I
1st Exam/Mech./Auto/MECHATRONICS/7152/Dec'22
(For 2018 Batch Onwards)

Duration: 4Hrs. **M.Marks:100**

SECTION-A

Q1. a) Fill in the blanks: **10x1.5=15**

i. A hidden object is shown by_____ line.
ii. Section lines are drawn at an angle of _____.
iii. Guide lines should be drawn very ____and____ .
iv. Abbreviation for counter sunk is _____.
v. Projection and dimension lines should not _____ other lines.
vi. Length of scale = _____ x Maximum length to be shown on scale.
vii. Front view lies above H.P. in ____ quadrant.
viii. An isometric view of a circle is an _____.
ix. An isometric view shows ____ surfaces of the object.
x. Isometric length = _____ x True length.

b) Draw any five symbols of following. **5x1=5**

i) Center line ii) object line iii) short break line iv) cutting plane v) Concrete
vi) asbestos vii) lead viii) round section ix) petrol

SECTION-B

Q2. Attempt any three questions. **3x10=30**

a. Differentiate 1st angle and 3rd angle projection.
b. Draw the following in single stroke vertical gothic letters in 7:4 ratio. Taking height 15mm.
WORK IS WORSHIP
c. Show the chain dimensioning, parallel dimensioning and progressive dimensioning by taking suitable example.
d. Draw a scale to show metres and decimeters, when 1 metre is represented as 2.5 cm. and long enough to measure 5m. Find R.F. and indicate on scale
i) 3m4dm ii) 7dm iii)2.8m
e. Draw the projections of the following point on the same ground line :-
A 40 mm above H.P. and 25 mm infront of V.P.
B 28 mm below H.P. and 20 mm behind the V.P.
C 25 mm above H.P. and 35 mm behind the V.P.
D 25 mm below H.P. and 30 mm infront of V.P.
E in the H.P. and 25 mm behind the V.P.

SECTION-C

Attempt any two questions. **2x25=50**

Q3. Figure no. 1 shows the pictorial view of an object. Draw the front view, side view and top view.
Q4. Figure no. 2 shows the pictorial view of an object. Draw the following views:-
a) Sectional front view along XX b) Side view c) Top view
Q5. A cube of side 30 mm rests axially on a cylinder of 60 mm diameter and 30 mm high. Draw its isometric view.
Q6. Draw the top view, front view and side view of a block shown in figure no.3 and identify its surfaces.

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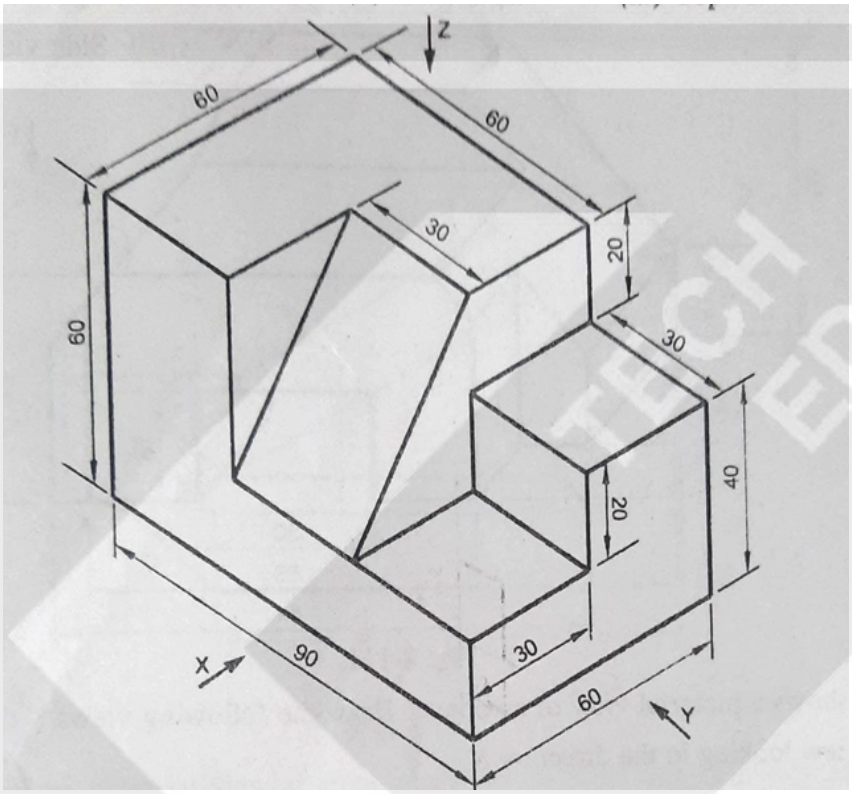

Figure No.1

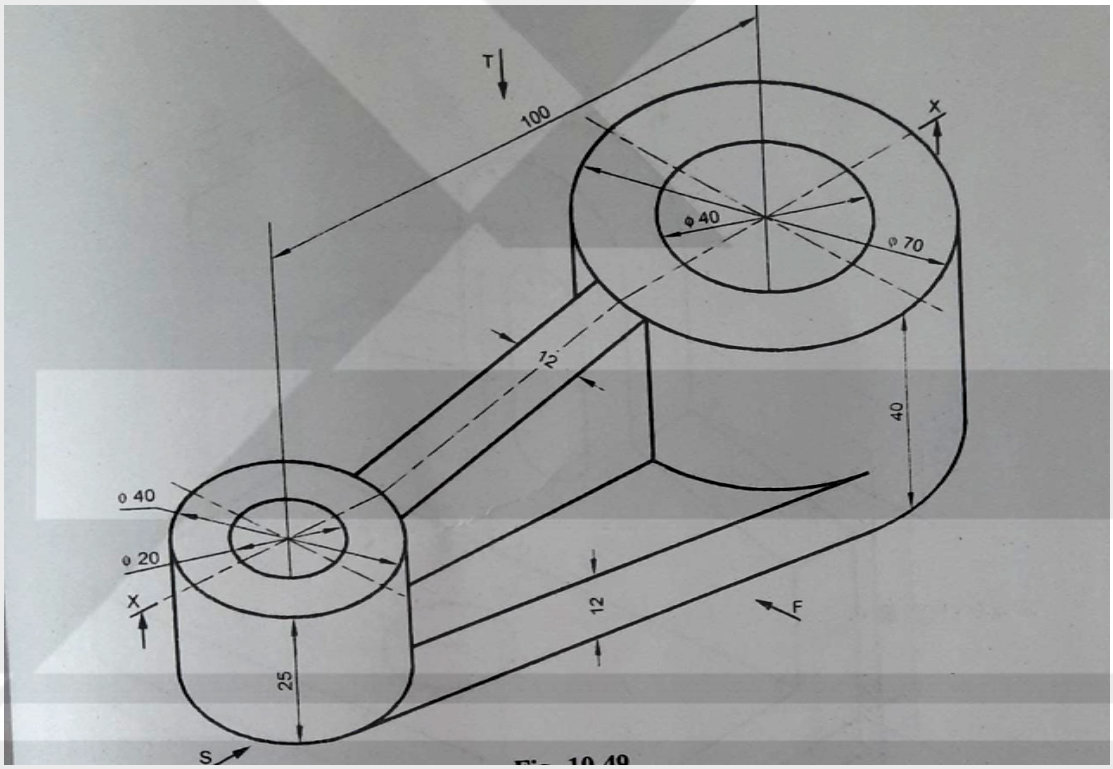

Figure No.2

S. B. Roll. No……..

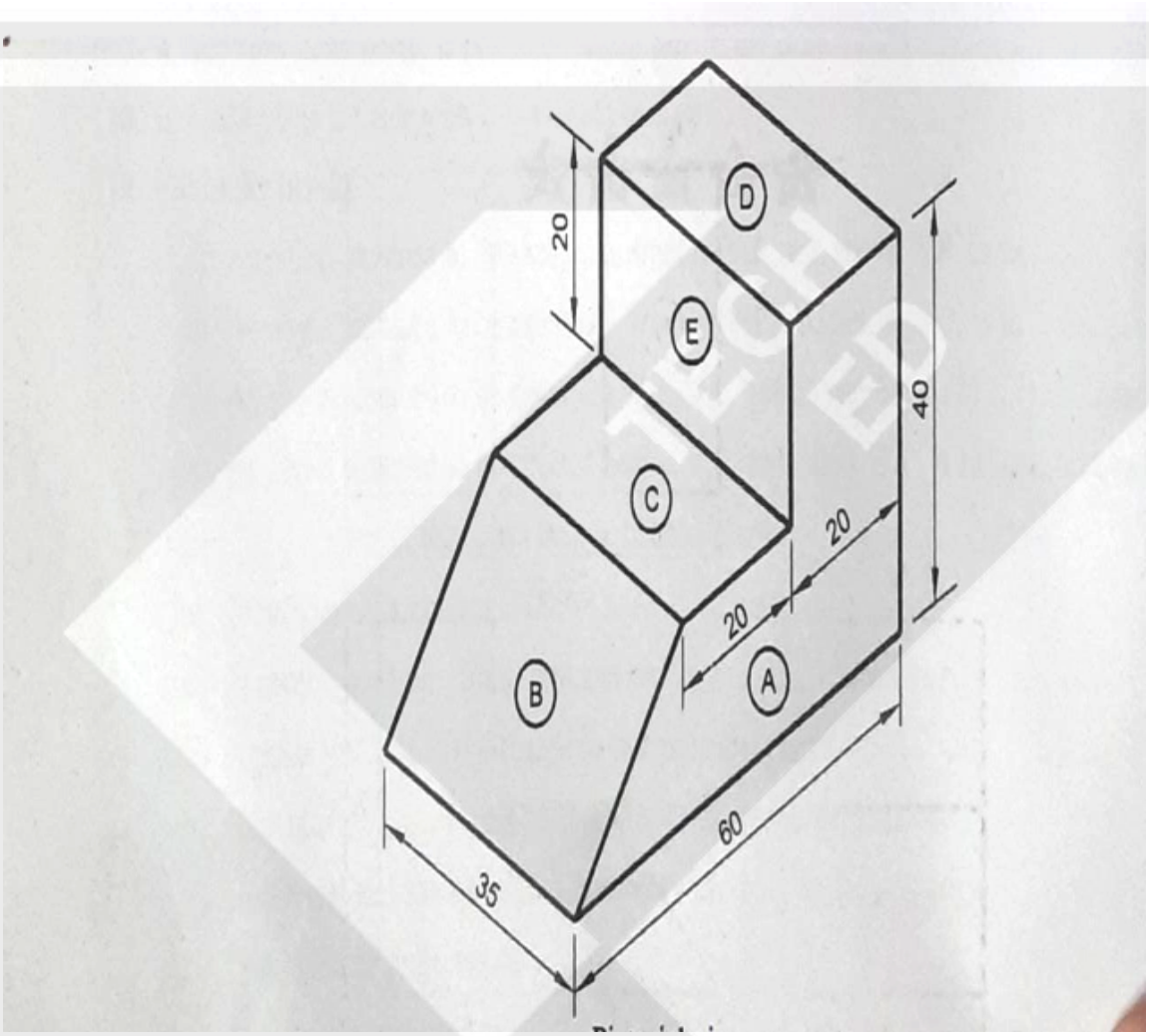

Figure No. 3