Code No. : 204

[28

[28,850 प्रतियाँ]

ENGINEERING DRAWING - I

[Maximum Marks : 60

[Minimum Marks : 20

Time : 3:00 Hours]

NOTES :

i) Attempt four questions in all. Question no.1 is compulsory.

ii) Students are advised to specially check the Numerical Data of question paper in both versions. If there is any difference in Hindi translation of any question, the students should answer the question according to the English version.

iii) Use of Pager and Mobile Phone by the students is not allowed.

iv) Assume suitable dimensions wherever not given.

v) Use both sides of the drawing sheet, if necessary.

Q1) Fig -1 shows the isometric view of an object. Draw to a suitable scale the following views in the third angle projection giving dimensions

[7+5+6=18]

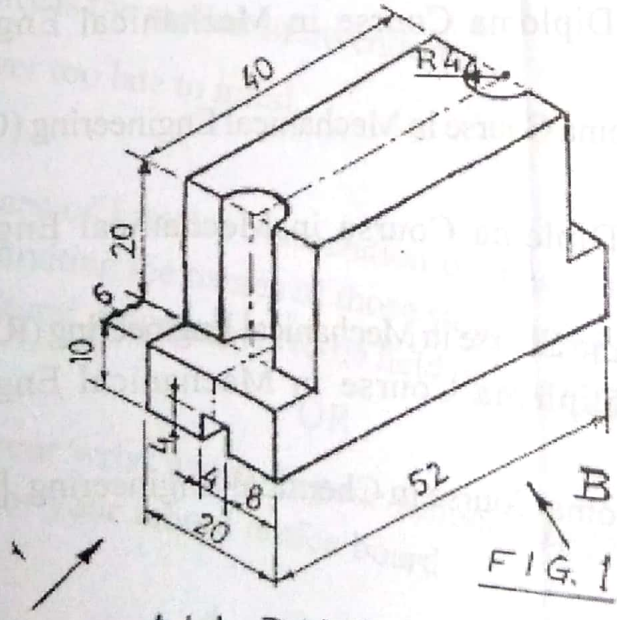

FIG. 1

ALL DIMENSIONS IN mm.

[28,850 प्रतियाँ]

a) Elevation looking in the direction of arrow 'A'

b) Side view in the direction of arrow 'B'

c) Plan

(Note : Hidden parts if any should be shown by dotted lines)

Q2) a) Draw isometric view of a cylinder of dia. 40mm and length of axis as 60 mm when its axis is in vertical position. **[7]**

b) Construct an ellipse by any one method when its major and minor axes are given as 80mm and 50mm respectively. **[7]**

Q3) a) Write neatly free hand the following sentence in single stroke upright capital letters of height 10mm: **[7]**

"HIS WITS ARE GONE A WOOL-GATHERING"

b) Show clearly the following as related to the sectioning of machine parts with the help of neat sketches. **[7]**

i) Full section.

ii) Revolved section.

Q4) Construct a diagonal scale of $R.F = \frac{3}{200}$ which can read m, dm and cm and is long enough to read upto 12m. Mark distances of 7.46m and 10.27m on this scale. **[14]**

Q5) a) Give the conventional representation of the following: **[7]**

i) Round pipe.

ii) Glass

(P.T.O.)

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iii) Rectangular rod

iv) Center line

v) Tee-bar

vi) Ply wood

vii) Dimension line

b) Draw the projections of the following points on the same ground line: [7]

i) 'A' 36mm below the H.P. and 17mm in front of the V.P.

ii) 'B' is in the H.P. and 38mm behind the V.P.

iii) 'C' is 50mm below H.P. and is in the V.P.

Q6) Answer any two parts of the following: **[2×7=14]**

a) A line 'AB' 60mm long is parallel and behind 35mm to V.P. The end 'A' of the line is 25mm below H.P. and the line is inclined at an angle of 45° to H.P. Draw projections of this line in the first angle.

b) A pentagonal pyramid of side of base 35mm and length of axis 65mm is standing on its base in H.P. If one of the base side is perpendicular to V.P., then draw its elevation and plan in the first angle projection.

c) Construct a regular pentagon of side 35mm by any method.

[48,775 प्रतियाँ]

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EVEN SEMESTER EXAMINATION, JUNE - 2019

[Second Semester] Three Years Diploma Course in Mechanical Engineering (Automobile) [341]

[Second Semester] Three Years Diploma Course in Mechanical Engineering (Computer Aided Design) [342]

[Second Semester] Three Years Diploma Course in Mechanical Engineering (Production) [343]

[Second Semester] Three Years Diploma Course in Mechanical Engineering (RAC) [344]

[Second Semester] Three Years Diploma Course in Mechanical Engineering (Maintenance) [345]

ENGINEERING DRAWING - II

Time : 3.00 Hours] **[Maximum Marks : 60**

[Minimum Marks : 20

NOTES :

i) Attempt four questions in all. Question no. 1 is compulsory.

ii) Students are advised to specially check the Numerical Data of question paper in both versions. If there is any difference in Hindi Translation of any question, the students should answer the question according to the English version.

iii) Use of Pager and Mobile Phone by the students is not allowed.

iv) Assume suitable dimensions wherever not given.

v) Use both sides of the drawing sheet, if necessary.

Q1) Figure 1 shows the pictorial view of a "Bridle Joint". Assemble the two members and draw the following views on 1:1 scale. **[15]**

a) Front view

b) Side view

c) Top view

[48,775 प्रतियाँ]

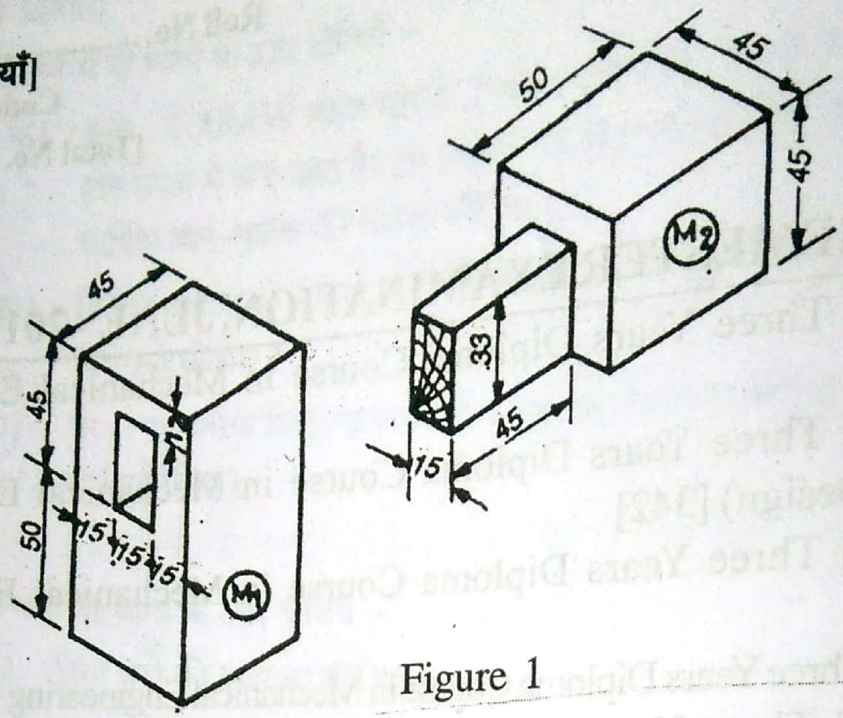

Figure 1

Q2) Draw the profile of a metric thread with crests and roots in the rounded form. Mention the thread angle, the pitch and other proportions. **[15]**

Q3) Draw the top view and sectional view of a double riveted double cover Bult Joint (chain type) when the diameter of the rivet = 18 mm. **[15]**

OR

Draw any two types of locking devices and name them.

Q4) Draw the sectional front view of a colter joint with sleeve used to connect two steel rods of 50 mm diameter each. **[15]**

OR

Draw any three types of keys and name them.

Q5) Draw proportional sketches of following types of foundation bolts. **[15]**

a) Lewis foundation bolt
b) Eye foundation bolt

OR

Draw any one type of flexible coupling.