Total No. of Questions : 5   Total No. of Printed Pages :

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B.E. II Sem. Civil Engg. Exam.-2013

ENGINEERING DRAWING

Paper : CE-205

Time Allowed : Three Hours

Maximum Marks : 60

Note : Attempt all questions. assume missing data where
neccessary. Solve all question in one drawing sheet
may be used at both side.

Q.1. Draw any three

a) A room of 1728m³ volume is shown by a cube of 216
volume . Find R.F. and construct a plain scale
measure up to 42 m. Mark a distance of 22 m
Scale.

b) Draw a scale of full size , showing 1/1000 inche
measure upto 5 inches.

c) Draw parabola if distance between focus & direction
50 mm

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(2)

d) Draw Hypocyeloid if radius of generating circle is 25
mm & radius of directing circle is 50 mm.

Q.2. A room is 4.8 m × 4.2 m × 3.6 m high . Determine graphically
the distance between a top corner and bottam corner
diagonally opposite to it.

OR

Two lines AB & AC make an angle of 120° between them in
their f.v. & topview AB is parallel to both the H.P. & V.P.
Determine the real angle between AB & AC.

Q.3. draw the projection of a rhombus having diagonals 125 mm
and 50 mm long. The smaller diagonals of which is parallel
to both the principal planes , while the other is inclined at 30°
to the H.P.

OR

A hexagonal pyramid base 25 mm side and axis 50 mm long
,has an edge of its base on the ground its axis is inclined at
30° to the ground and parallel to the V.P. Draw its projection.

Q.4. A cone diameter of the base 60 mm & axis 70 mm long is
resting on its base on the H.P. st is cut by an A.I.P. So that
the true shape of the seciton is an iso sceler triangle having
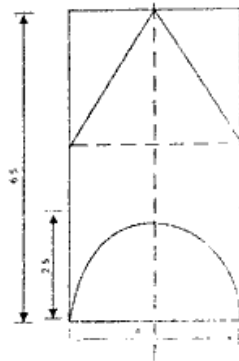50 mm base. Draw the plan , elevation and the true shape of
section.

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(3)

OR

Draw the development of the lateral surface of the cylinder cut as shown in fig.

(All dimentions are in

Q.5. The outside dimension of a box made of 4c.m. thick plate are 90 cm × 60 cm ×60 cm height. The depth of the lid outside is 12 c.m. Draw the isometric view of box when lid is 90° open

OR

Draw the isometric view of hexagonal nut for 24 mm diameter bolt , assuming approximate dimension. The threads be neglected.

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