Government College of Engineering, Amravati

S- 2018 CT-II IV Semester B.Tech. (Mechanical Engg.)

Course Name : MEU405 MACHINE DRAWING

Time : 1hr. **Max. Marks: 08**

Solve any **TWO** questions.

A A cone of base diameter 40 mm and slant height 60 mm is kept on the ground on its base. An AIP inclined at 45^0 to the HP cut the cone through the midpoint of the axis. Draw the development.

B Draw a semicircle of 70 mm radius. Inscribe a regular pentagon of 40 mm side symmetrically in the semicircle with a corner of it on the center of the semicircle and the side opposite to the said corner parallel to the diameter of the semicircle.
The semicircle is the development of a cone and the pentagon is a figure drawn on its curved surface. Show it on the FV and TV of the cone

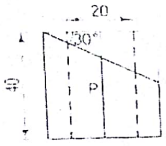
C A hexagonal pyramid of side of base 60 mm and length of axis 140 mm is kept on the ground on its base. It is cut by an AIP inclined at 45^0 to the base and cutting the axis at 94 mm from the apex. Draw the development of lateral surfaces of the pyramid

GOVERNMENT COLLEGE of ENGINEERING, AMRAVATI
(An Autonomous Institute of Government of Maharashtra)
Course Code & Name: MEU-405 MACHINE DRAWING
CLASS TEST-II: IV Sem (2017-18) B.Tech. (Mechanical Engg.)

Time: 1.00 Hr | Max. Marks: 08

Note: Solve any two Questions & each question carry equal 4 marks

Q.1. Draw the development of lateral surface of Pentagonal prism part 'P'



Assume a side of base parallel to V.P.

Q.2. A vertical cylinder of 80 mm diameter is completely penetrated by another cylinder of 60 mm diameter, their axes bisecting each others at right angles. Draw their projections showing curves of penetrations, assuming the axis of the penetrating cylinder to be parallel to the V.P.

Q.3. A cone of base 75 mm diameter, axis 110 mm long penetrates a vertical cylinder of 75 mm diameter. The two axes bisecting each other at right angles. Draw the front view showing lines of intersections.

Government College of Engineering, Amravati

Mechanical Engineering Department

Subject: Machine Drawing (MEU405) CT-II

Time: 1 hr. *Second Year B. Tech* *Max Marks 08*

Date: 10/ 03/ 2016 *4.30 PM*

Question No. 1 is compulsory
All the dimensions are in mm.

1. A right circular cone with base diameter 120 mm and slant height 205 mm is cut by an AIP inclined at 60° to the base. The plane cuts the axis 110 mm above the base. Draw its development. .....(4 Marks)

2. A pentagonal prism of edge of base 35 mm and length of axis 85 mm is resting on the HP on its base with one of the rectangular faces of prism perpendicular to the VP. The prism is cut by an AIP inclined at 55° to the base and passing through 10 mm below the one of the top corners of the prism. ..... (4 Marks)

OR

3. A hexagonal pyramid of side of base 60 mm and length of axis 140 mm is kept on the ground on its base. It is cut by an AIP inclined at 45° to the base and cutting the axis at 94 mm from the apex. Draw the development of the lateral surfaces of the pyramid. ..... (4 Marks)

GOVT. COLLEGE OF ENGINEERING

(An Autonomous Institute Of Government of Maharashtra)

Department of Mechanical Engineering

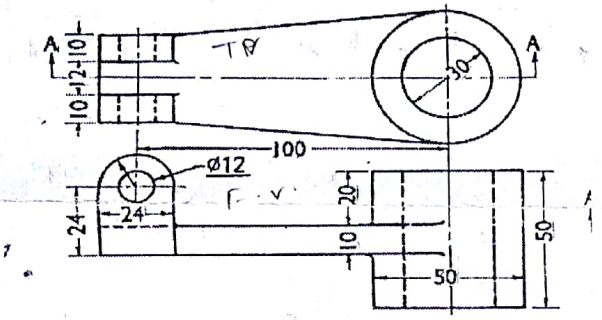
Class Test 2 (Sem 4 th 2013-2014)

Course- Machine Drawing **Dt. 5/3/2014**

Time: 3.00 to 4.00pm **Max Mark-8**

Q.1] Draw according to the first angle projection method. **3**

1] Sectional Front View, Section AA 2] Side view from left



Q.2]] Attempt any One of the following .Draw according to the third angle projection method. 5

a) 1] Sectional Front View, Section AA& top view **b)**) 1] Sectional Front View, Section AA

2] Side view from right

3] Sectional top View, Section BB