ROLL NO:	

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

PRESIDENCY UNIVERSITY, BENGALURU

SCHOOL OF ENGINEERING

Weightage: 15% Max Marks: 30 Max Time: 1 hr. Saturday, 22nd September, 2018

TEST – 1

Odd Semester 2018-19 Course: **MEC152 Engineering Graphics** I Sem. Physics Cycle

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Instruction:

(i) Read the question properly and answer accordingly.
(ii) Question paper consists of 3 parts.
(iii) Scientific and Non-programmable calculators are permitted.

Part A

(5 Q x 1 M = 05 Marks)

1.

a. In third angle of projection, name the side view on LPP.
b. If the point lies on any one of the reference planes, then the point belongs to how many quadrants.
c. Give the conditions or statement for 1st angle of projection.
d. As per JIS standard, size of A1 sheet is _____
e. Building plan is an example of _____ type of scale

Part B

(1 Q x 10 M = 10 Marks)

2. A point P is on HP and 35mm in front of VP. Another Point Q is on VP and below HP, The line joining their front views makes an angle of 30^0 to XY line, while the line joining their top views makes an angle 45^0 with XY line. Find the distance of the point Q from HP.

(OR)

A point is 20mm above HP & 25mm in front of VP. Another Point B is 25mm behind VP and 40mm below HP. Draw their projections when the distance between their projectors parallel to XY line is 0 mm. Add the right side view only to point B.

Part C

(1 Q x 15 M = 15 Marks)

3. A line AB 80mm long has its end A 20mm above the HP and 30mm infront of VP. It is inclined at 30° to HP and 45° to VP. Draw the projections of the line and find apparent lengths and apparent inclinations.

(OR)

The top view PQ of a straight line is 70mm and makes an angle of 60° with the XY line. The end Q is 10mm infront of VP and 30mm above the HP. The difference between the distances of P and Q above the HP is 45mm. Draw the projections. Determine the true length and true inclinations with HP and VP.

ROLL NO:

PRESIDENCY UNIVERSITY, BENGALURU

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TEST 2

Odd Semester: 2018-19 | **Date**: 24 November 2018

Course Code: MEC 152 | **Time**: 1 Hour

Course Name: Engineering Graphics | **Max Marks**: 30

Branch & Sem: Physics Cycle & I Sem | **Weightage**: 20%

Instructions:

(i) ***Answer one question from both Part A & B***

(ii) *All questions carry equal marks*

(iii) *Drawings should be neat. Dimensioning and proper thickness of lines carries marks*

Part A

(1x12=12)

1. A regular hexagonal lamina of sides 30 mm is resting on HP in such a way that one of its sides is on both HP and VP. Draw the projections of the lamina when it is inclined to HP at 50°.

OR

2. A pentagonal lamina of sides 25 mm is resting on a corner on HP in such a way that the edge opposite to the corner on which it is resting is at a height of 20 mm above HP and inclined at 30° to VP. Draw its projections

Part B

(1x18=18)

3. A square pyramid of sides of base 40 mm and axis 60 mm is resting on a corner of its base on HP such that the two base edges contained by that corner are equally inclined to HP. Draw the projections of the pyramid when the axis is inclined to VP at 50° and HP at 30°

OR

4. A hexagonal pyramid of sides of base 35mmand height 55 mm is resting on one of its slant triangular faces on HP such that the axis appears to be inclined to VP at 40°. Draw its projections.