ACE
Engineering College
(with a Difference in Excellence)
An AUTONOMOUS Institution

Question Paper Code: **ME104ES**

ACE-R20

Semester End Examination
I B. Tech- I Semester Regular/ Supply – JUNE -2022
Engineering Graphics
(Branch: CSM)

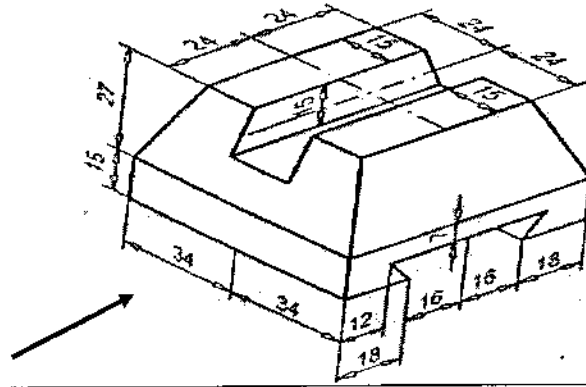Time: 3 Hours   Max. Marks: 70

H. T. No										

Answer any 5 Questions out of 8 Questions from the following

Q.No	Question	Marks
1.	Construct a cycloid for one and half revolutions when the radius of the generating circle is 25mm.	14
2.	A car is moving at a speed of 360 km/hour. Draw a diagonal scale to represent 6 km by 1 cm to show a maximum distance of 60 km. Measure the distance travelled by the car at 6 minutes 10 seconds	14
3.	A line measuring 75mm long has one of its ends 50mm in front of VP and 20mm above HP. The other end is 15mm in front of VP and above HP. The top view of the line measures 50mm. Draw the projections and find its true inclinations.	14
4.	A circular plate of negligible thickness and 50mm diameter is vertical and inclined at 45° to VP. Draw its projections when the centre of the circular lamina is 40mm above HP and 60mm in front of VP.	14
5.	A hexagonal prism of base 30mm and axis 60mm rests on its base on HP with its axis perpendicular to HP and one of the base edge parallel to VP. The solid is cut by a plane which is perpendicular to VP, inclined at 40° to HP and bisecting the axis of the prism. Draw the front view, sectional top view and true shape of the section.	14
6.	A hexagonal pyramid of base side 30mm and axis height 60mm is resting on its base on HP with two of the base edges parallel to VP. It is cut by a plane perpendicular to VP, inclined 30° to HP and bisects the axis of the pyramid. Draw the development of the lateral surfaces of the lower portion of the pyramid.	14

7.	Draw the three orthographic views for the following fig.	14
8.	Draw the Isometric View from the given Orthographic Views.	14