PVP 23

Code: 23ES1203

I B.Tech - II Semester – Regular Examinations - JULY 2024

ENGINEERING GRAPHICS
(COMPUTER SCIENCE & ENGINEERING)

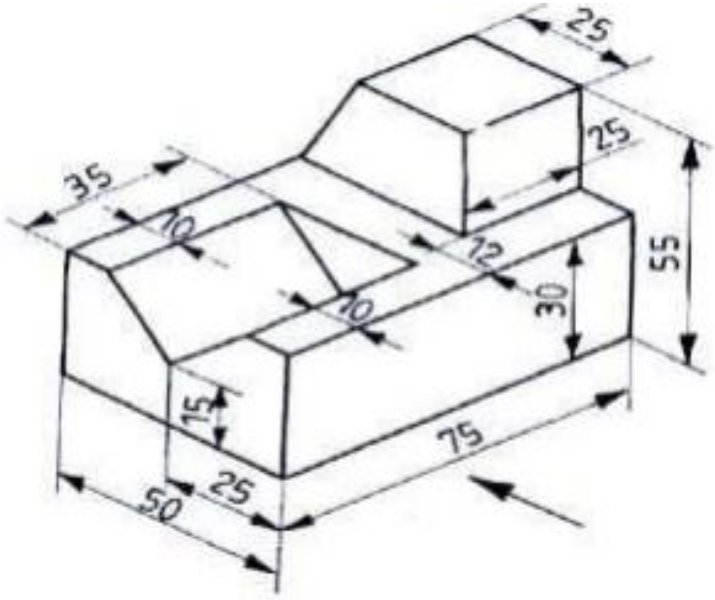
Duration: 3 hours Max. Marks: 70

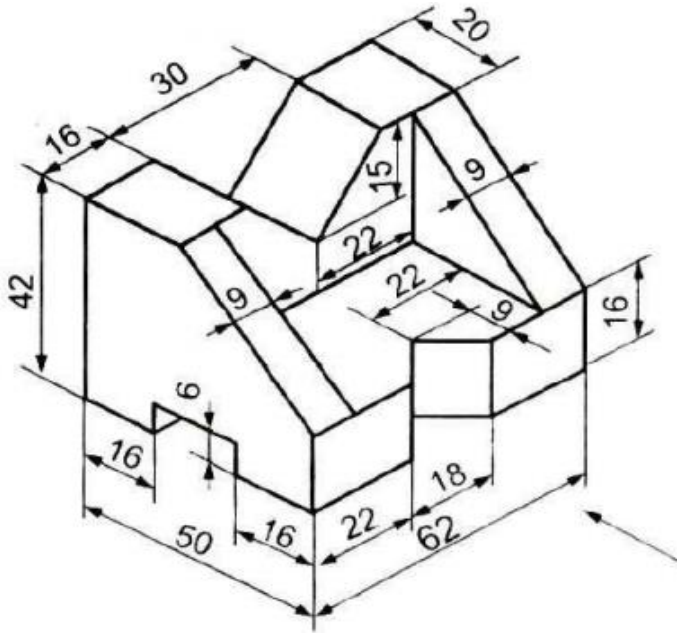
Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.
2. All parts of Question must be answered in one place.

BL – Blooms Level CO – Course Outcome

			BL	CO	Max. Marks
UNIT-I					
1	Construct a parabola, with the distance of the focus from the directrix as 50 mm, also draw a normal and tangent to the curve at a point 40 from the directrix.		L2	CO1	14 M
OR					
2	Draw a diagonal scale of R.F= 3/100, showing meters, decimeters & centimeters and measure upto 5 meters. Show the length of 3.69 meters on it.		L2	CO1	14 M
UNIT-II					
3	A line measuring 80 mm long has one of its ends 60 mm above H.P and other end is 20 mm in front of V.P. and the other end is 15 mm above H.P. and in front of V.P. The front view of the line is 60 mm long. Draw the top view.		L3	CO2	14 M
OR					

4	A line AB of 70 mm long has its end A 20 mm above H.P and 15 in front of V.P. The line is inclined 30^o to H.P and 60^o to V.P. Draw its projections.	L3	CO2	14 M
	UNIT-III			
5	An equilateral triangle plane ABC of side 40 mm has its plane parallel to V.P and 20 mm away from it. Draw the projections of the plane when one of its sides is (i) perpendicular to H.P. (ii) parallel to H.P and (iii) inclined at 45^o to H.P.	L3	CO3	14 M
	OR			
6	Draw the projections of a cone of diameter of base 40 mm and axis 60mm long when it is lying on a point of the base on HP with its axis is inclined at 45^o to HP and perpendicular to VP.	L3	CO3	14 M
	UNIT-IV			
7	A pentagonal prism of base side 30mm and axis length 60mm is resting on HP on one of its rectangular faces, with its axis perpendicular to VP. Axis is inclined at 40^o to VP. It is cut by a plane perpendicular to HP and passing through the point 25mm from front of base of the prism. Draw the top view and sectional front view	L3	CO4	14 M
	OR			

8	A pentagonal pyramid, side of base 30 mm and height 60 mm, stands with its base on HP and an edge of the base is parallel to VP and nearer to it. It is cut by a plane perpendicular to VP, inclined at 40° to HP and passing through a point on the axis, 32 mm above the base. Draw the sectional top view. Develop the lateral surfaces of the truncated pyramid.	L3	CO4	14 M
	UNIT-V			
9	Draw three views of the blocks shown pictorially in figure according to first angle projection.  	L6	CO5	14 M
	OR			

10	Draw three views of the blocks shown pictorially in figure according to first angle projection.  	L6	CO5	14 M