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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May, 2023

Course: Workshop practices and engineering graphics

Program: B. Tech biomedical engineering

Course Code: MECH 1007

Semester: II Time: 3 hrs

Max. Marks: 100

Instructions: (1) Answer ALL questions

SECTION A

S. No.	Questions	Marks	CO
Q1	Fill in the blanks.	1.5	CO1
	Two types of dimensions needed on a drawing are and dimensions.	1.5	COI
Q2	Fill in the blanks.		
	In to and near	1.5	CO1
	the	1.0	
	but clear of dimension line.		
Q3	Fill in the blanks	1.5	CO1
0.4	Dimension lines should be drawn at least 8 mm away from the and from		
Q4	Define orthographic projection.	1.5	CO1
Q5	Fill in the blanks	1.5	CO1
	Write two differences between first angle and third angle projection method.	1.5	COI
Q6	Fill in the blanks	1.5	CO1
	The Shape of faces of pyramid is	1.5	001
Q7	Fill in the blanks		~~1
	When solid is cut by parallel plane to its base, then the remaining solid is known as	1.5	CO1
00			
Q8	Write use of development of surface	1.5	CO1
Q 9	Fill in the blanks	1.5	CO1
	Dimension line is continuesline	1.5	COI
Q10	Fill in the blanks	1.5	CO1
	Dashed line is used to show	1.5	001
Q11	Fill in the blanks	1.5	CO1
	Centre lines, is drawn as		001
Q12	Fill in the blanks	1.5	CO1
0.1.0	The position of cutting plane is shown by		
Q13	Fill in the blanks	1.5	CO1
014	Tetrahedron is combination of		
Q14	Fill in the blanks	1.5	CO1
	Axis of the solid is defined as		

Q15	Fill in the blanks	1.5	CO1
	Prism is combination ofbase	1.5	COI
Q16	Fill in the blanks	1.5	CO1
	Welding provides joint of two metals	1.5	COI
Q17	Fill in the blanks	1.5	CO1
	The coating on the electrode is kwon as	1.0	
Q18	Fill in the blanks	1.5	CO1
010	The cutting tool of the lathe machine is mounted in the		
Q19	Fill in the blanks	1.5	CO1
020	Wood work is done inshop of workshop. Fill in the blanks		
Q20		1.5	CO1
	Job holing device of lathe is known as SECTION B		
Q1	A point P is 20mm above H.P. and on V.P. Draw the projections	5	CO2
Q2	The from view of line AB of length 50mm is observed 40mm. End A of the line is 20mm above HP and 25mm in front of VP. Line is parallel to HP. Draw the projections and find the inclination of the with VP.		CO2
Q3	A square ABCD of 40 mm side has a corner on the H.P. and 20 mm in front of the V.P. All the sides of the square are equally inclined to the H.P. and parallel to the V.P. Draw its projections		CO2
Q4	Two points A and B are on H.P. The point A is 30 mm in front of the V.P., while B is behind the V.P. The distance between their projectors is 75 mm and the line joining their top views makes an angle of 45° with XY. Find the distance of the point B from the V.P.	5	CO2
	SECTION C	I	
Q1	A pentagonal pyramid, base 30 mm side and axis 70 mm long, has one of its slant edges in the H.P. Draw the projections.	15	CO3
Q2	A square ABCD of 40 mm side has a corner on the H.P. and 20 mm in front of the V.P. All the sides of the square are equally inclined to the H.P. and parallel to the V.P. Draw its projections.	15	СОЗ
	SECTION D		
Q1	Draw the development of cone of base circle diameter 50mm and axis 60mm. resting on the HP by its base.	10	CO4
Q2	A regular pentagon of 25 mm side has one side on the ground. Its plane is inclined at 45° to the H.P and perpendicular to the V.P. Draw its projections.	10	CO4