| Name: <br> Enrolment No: |  | VUPFSS |  |  |
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| Cours Progr Cours Instruc | UNIVERSITY OF PETR End Semester : Workshop practices and engineering gr m: B. Tech biomedical engineering Code: MECH 1007 <br> ons: (1) Answer ALL questions | D ENERGY STUDIES , May, 2023 | ter: II <br> 3 hrs <br> Marks: 100 |  |
| SECTION A |  |  |  |  |
| S. No. | Questions |  | Marks | CO |
| Q1 | Fill in the blanks. <br> Two types of dimensions needed on a drawing are $\qquad$ and $\qquad$ dimensions. |  | 1.5 | CO1 |
| Q2 | Fill in the blanks. <br> In $\qquad$ -system, the dimension is placed $\qquad$ to and near the- $\qquad$ but clear of dimension line. |  | 1.5 | CO1 |
| Q3 | Fill in the blanks <br> Dimension lines should be drawn at least 8 mm away from the $\qquad$ and from |  | 1.5 | CO1 |
| Q4 | Define orthographic projection. |  | 1.5 | CO1 |
| Q5 | Fill in the blanks <br> Write two differences between first angle and third angle projection method. |  | 1.5 | CO1 |
| Q6 | Fill in the blanks <br> The Shape of faces of pyramid is |  | 1.5 | CO1 |
| Q7 | Fill in the blanks <br> When solid is cut by parallel plane to its base, then the remaining solid is known as----------- |  | 1.5 | CO1 |
| Q8 | Write use of development of surface |  | 1.5 | CO1 |
| Q9 | Fill in the blanks <br> Dimension line is continues-------------line |  | 1.5 | CO1 |
| Q10 | Fill in the blanks <br> Dashed line is used to show |  | 1.5 | CO1 |
| Q11 | Fill in the blanks Centre lines, is drawn as |  | 1.5 | CO1 |
| Q12 | Fill in the blanks <br> The position of cutting plane is shown by |  | 1.5 | CO1 |
| Q13 | Fill in the blanks <br> Tetrahedron is combination of |  | 1.5 | CO1 |
| Q14 | Fill in the blanks <br> Axis of the solid is defined as |  | 1.5 | CO1 |


| Q15 | Fill in the blanks <br> Prism is combination of -faces-----------base | 1.5 | CO1 |
| :---: | :---: | :---: | :---: |
| Q16 | Fill in the blanks <br> Welding provides $\qquad$ joint of two metals | 1.5 | CO1 |
| Q17 | Fill in the blanks <br> The coating on the electrode is kwon as | 1.5 | CO1 |
| Q18 | Fill in the blanks <br> The cutting tool of the lathe machine is mounted in the | 1.5 | CO1 |
| Q19 | Fill in the blanks <br> Wood work is done in -shop of workshop. | 1.5 | CO1 |
| Q20 | Fill in the blanks <br> Job holing device of lathe is known as | 1.5 | CO1 |
|  | SECTION B |  |  |
| Q1 | A point P is 20mm above H.P. and on V.P. Draw the projections | 5 | CO 2 |
| Q2 | The from view of line $A B$ of length 50 mm is observed 40 mm . End A of the line is 20 mm above HP and 25 mm in front of VP. Line is parallel to HP. Draw the projections and find the inclination of the with VP. | 5 | CO 2 |
| 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 | 5 | CO 2 |
| 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 $45^{\circ}$ with XY. Find the distance of the point B from the V.P. | 5 | CO 2 |
| SECTION C |  |  |  |
| 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 | CO3 |
| SECTION D |  |  |  |
| Q1 | Draw the development of cone of base circle diameter 50 mm and axis 60 mm . 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 $45^{\circ}$ to the H.P and perpendicular to the V.P. Draw its projections. | 10 | CO4 |

