



B.E DEGREE EXAMINATIONS: NOV/DEC 2022

(Regulation 2018)

Third Semester

MECHANICAL ENGINEERING

U18MET3005 Machine Drawing

COURSE OUTCOMES

- CO1: Recall standard drawing notations from memory
 CO2: Demonstrate the understanding of the basic concepts of Machine drawing
 CO3: Apply the principles of drawing while preparing component and assembly drawings.
 CO4: Analyze the concepts of drawings and select the appropriate one to be used
 CO5: Evaluate the correctness of the drawing based on a set of criteria and making technical comments
 CO6: Create drawings by a combination of drawing principles

Time: Four Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

(Answer not more than 40 words)

- | | | |
|---|-----|------|
| 1. Describe the different types of sectional views with suitable examples. | CO1 | [K1] |
| 2. List out the various principles to be followed while dimensioning a drawing. | CO1 | [K1] |
| 3. Sketch the conventional representation of the different engineering materials. | CO2 | [K2] |
| 4. Define leader line. | CO2 | [K1] |
| 5. Why dimensioning of an object is important. | CO3 | [K2] |
| 6. How are the values of surface roughness indicated in a drawing? | CO3 | [K2] |
| 7. Draw a collar bearing to a shaft of 50 mm diameter. | CO4 | [K2] |
| 8. List the application of riveted joints. | CO4 | [K1] |
| 9. What is the advantage of adopting geometrical tolerance symbols on production drawing? | CO5 | [K1] |
| 10. State transition fit. | CO6 | [K1] |

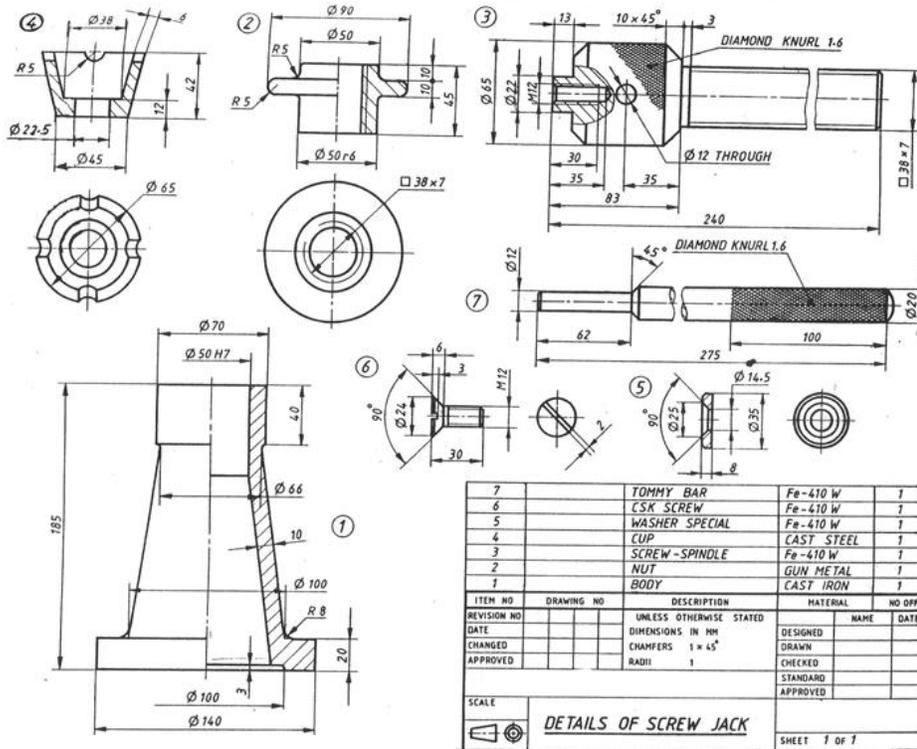
Answer any one Question:-

PART B (1 x 20 = 20 Marks)

(Answer not more than 400 words)

- | | | | |
|---|----|-----------------|-------------------|
| 11. a) Explain different elements of dimensioning with neat sketch. | 20 | CO ₁ | [K ₂] |
|---|----|-----------------|-------------------|

OR



Front view of screw jack showing right half in section.

b) Show the Top view of screw jack.

25 CO₃ [K₂]
