**R16** 

Q.P. Code: 16ME305

Reg. No.

# SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

## B.Tech II Year I Semester Supplementary Examinations December-2021 MACHINE DRAWING

(Mechanical Engineering)

Time: 4 hours

Max. Marks:60

#### Section – I (Answer any two questions, $2 \times 4 = 8$ )

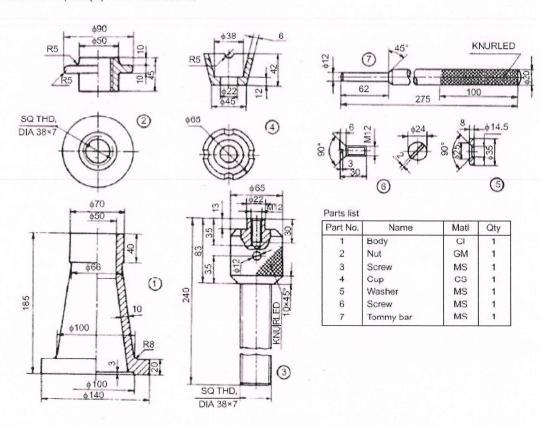
- 1. Show the conventional representation of the following materials
  - i. Internal Screw Threads
  - ii. Bearing on shafts
- 2. Sketch the conventional representation of the following:
  - (i) Cylindrical tension spring
- (ii)Worm
- 3. Sketch a sunk key with proportions.

#### Section – II (Answer any two questions, $2 \times 8 = 16$ )

- 4. Draw the Flange coupling to connect to shafts of 20 mm diameter.
- 5. Draw the Rag foundation bolts of diameter 20mm.
- 6. Draw double riveted butt joint to join two plates of 15 mm thick.

### Section – III (Compulsory Questions, 1 x 36 = 36)

7. Assemble all parts of the screw jack, shown in Fig. and draw the following views:(i)Half sectional view from the front, and(ii)View from above.



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