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Total No. of Pages : 03

Total No. of Questions : 07

B.Tech. (Marine Engg.) (2013 Onwards)/(ME)(2011 Onwards) (Sem.-3)

MACHINE DRAWING

Subject Code : BTME-303

M.Code : 59113

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of NINE questions carrying TWO marks each.
2. SECTION-B contains FOUR questions carrying FOUR marks each and students have to attempt any THREE questions.
3. SECTION-C contains TWO questions carrying THIRTY marks each and students have to attempt any ONE question.
4. First angle projection to be used. You may assume any missing dimension.

SECTION-A**Q1. Answer briefly :**

- a) What is the purpose of Fullering in riveted joint?
- b) Draw the freehand sketch of Metric thread profile giving its important proportions.
- c) What is the advantage of Plummer block over a simple bushed bearing?
- d) Draw the symbols for single butt weld.
- e) What are permanent fastenings?
- f) Describe the aligned system of dimensioning.
- g) What is a left hand thread?
- h) What is chamfering?
- i) What is the advantage of providing protective flanges?



SECTION-B

- Q2. Sketch freehand the top view and sectional front view of a single riveted double cover butt joint. Take rivet diameter as 24 mm.
- Q3. Draw the three views of a hexagonal nut and show all the proportions.
- Q4. Sketch freehand the full sectional front view of spigot and socket joint.
- Q5. Draw Knuckle and Buttruss threads and give their full details.

SECTION-C

- Q6. Figure-1 shows the details of Eccentric. Assemble the component and draw :
- (i) Full sectional front view
 - (ii) Top view

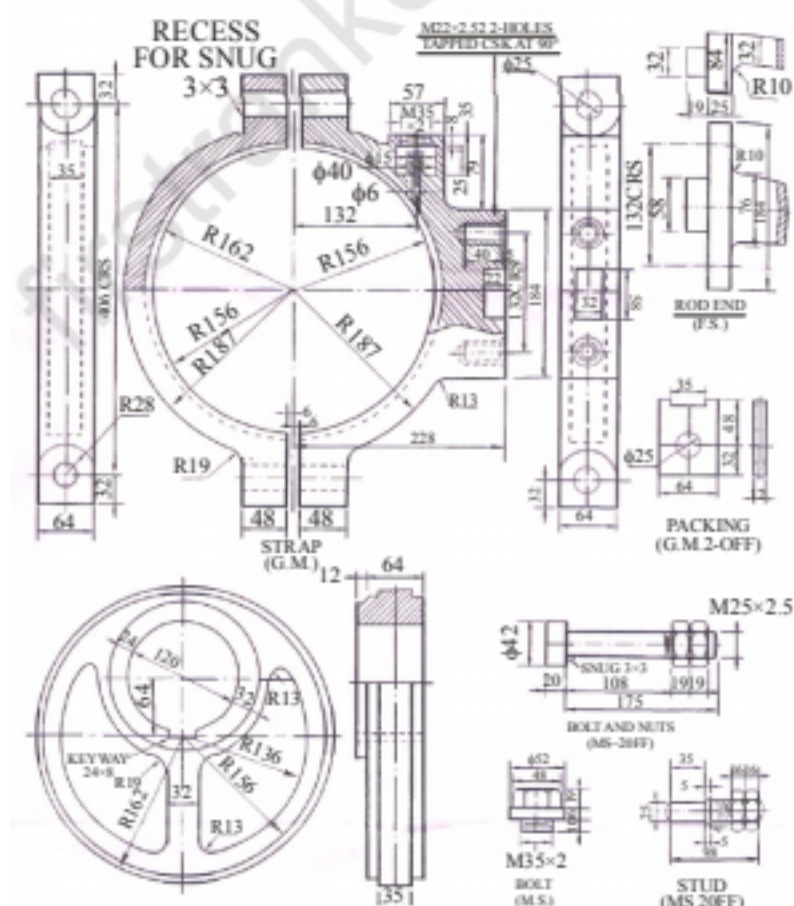


Fig.1

Q7. Figure-2 shows the details of a hand drill. Assemble the components and draw :

- (i) Front view, left half in section
- (ii) Right side view

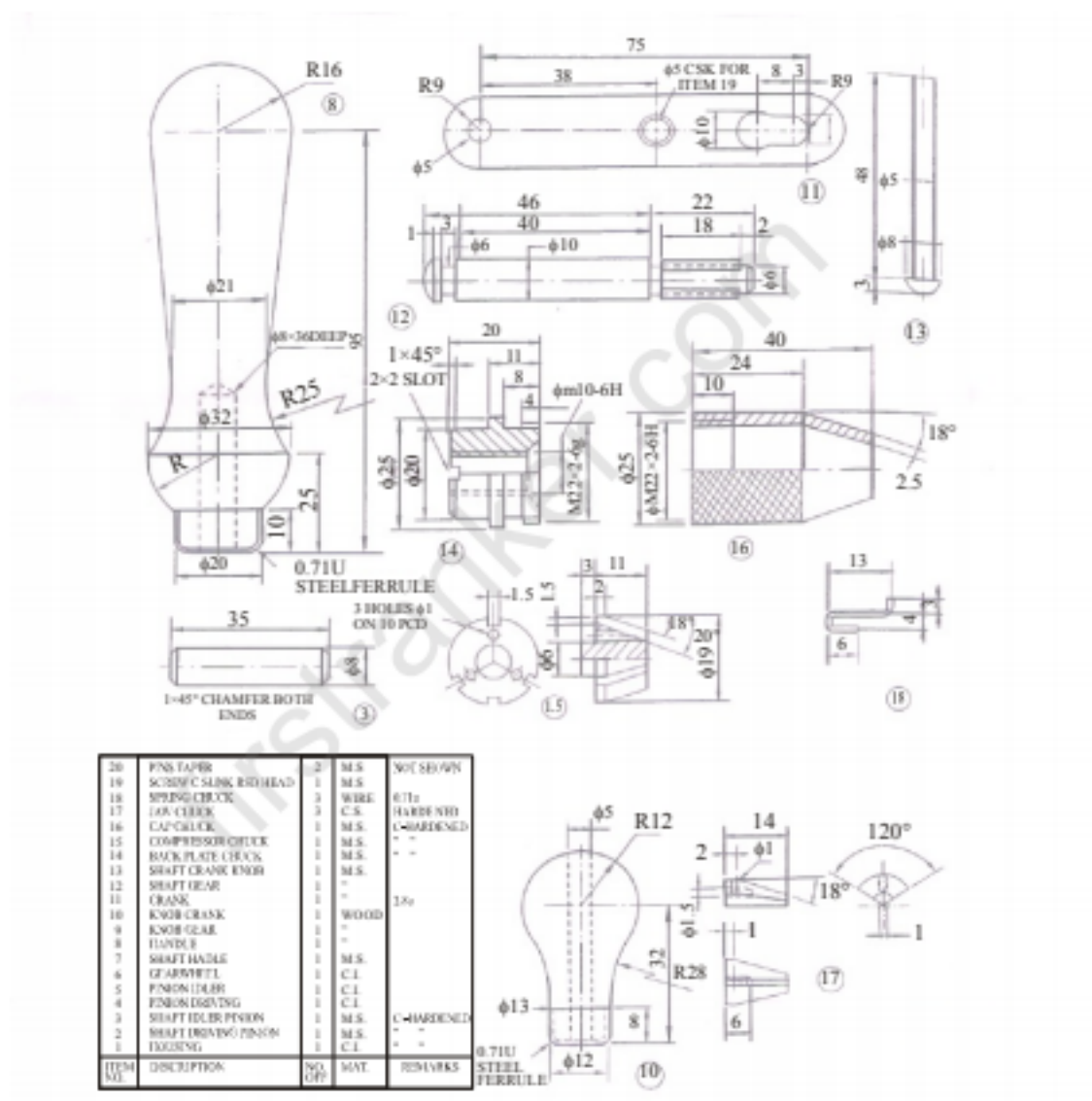


Fig.2

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.