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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

Paper ID : [A1140]

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 :**

(2×9= 18)

- a) What is a lock nut? Where is it used?
- b) How internal threads are shown in sections? Explain with drawings.
- c) What is a drilling jig?
- d) What is difference between rigid and flexible coupling?
- e) What is a revolved section? Explain with the help of a drawing.
- f) What do you understand by :
 - i) Length of weld.
 - ii) Size of weld?
- g) What do you understand by standard tolerances?
- h) Why bushes are made from soft material?
- i) What is application and function of a feed check valve?

SECTION-B

- Q2. Draw freehand sketches of front view and top view of gib and cottor joint (4)
- Q3. Draw a full sectioned freehand sketch of expansion joint. (4)
- Q4. Draw freehand sketches of top and front view of universal coupling. (4)
- Q5. Draw a free hand sketch of single plate friction clutch. (4)

SECTION-C

Q6. Assemble the parts of a **Connecting rod** given in Fig. 1 and draw the following views :

- i) Elevation (30)
- ii) Top view (full section)

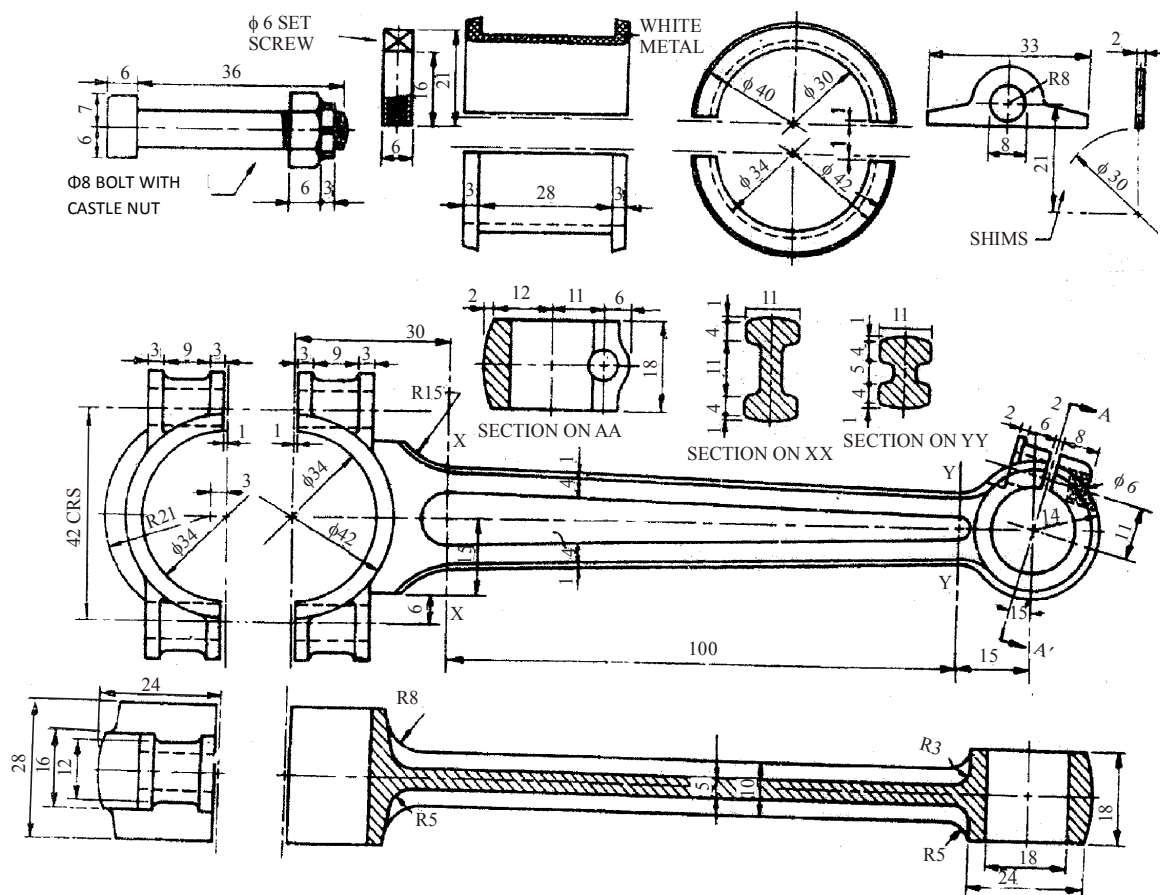


Figure - 1

- ii) Plan

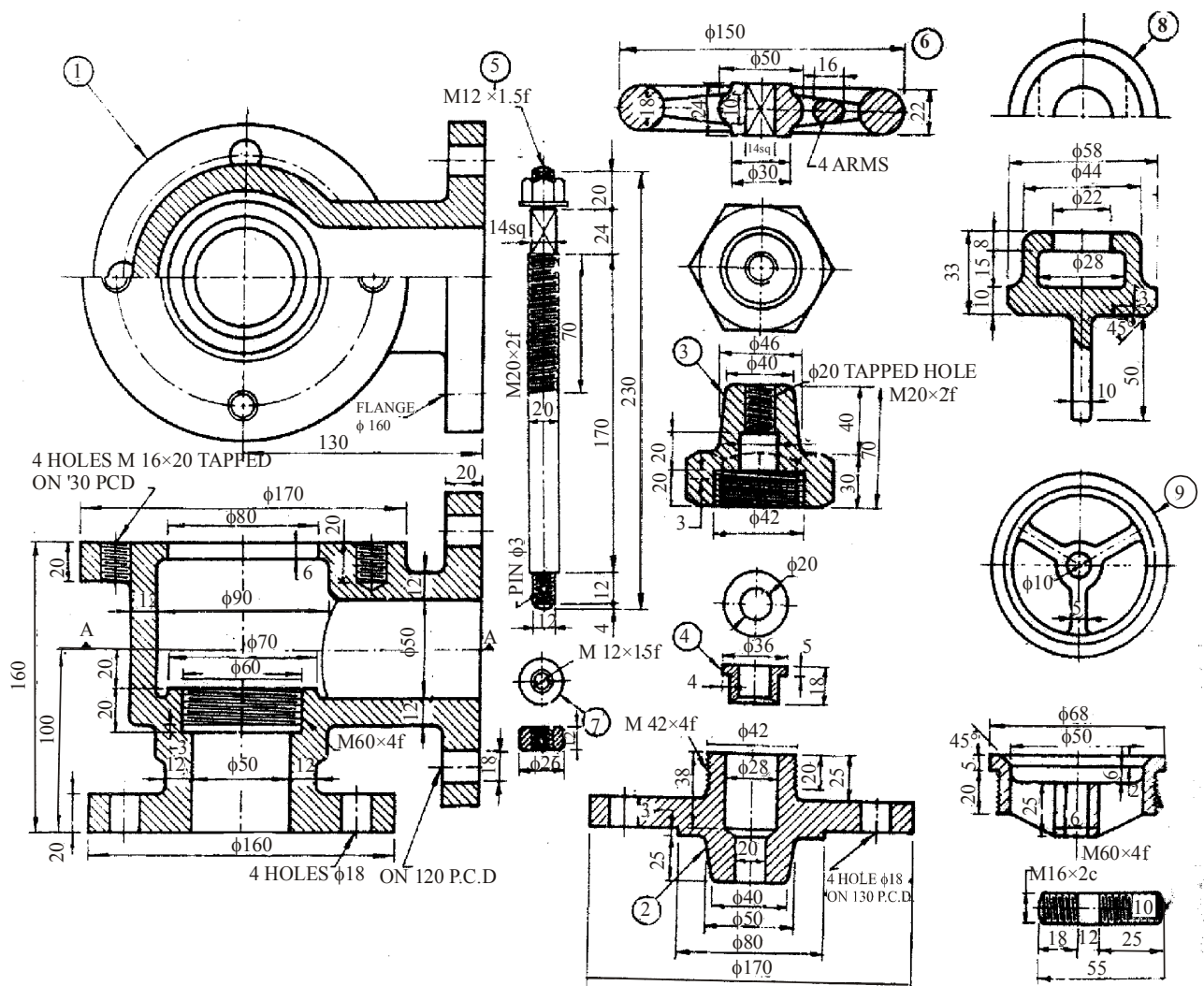


Figure - 2