

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 03

Total No. of Questions : 09

B.Tech.(ANE) (Sem.-3)**MACHINE DRAWING****Subject Code : ME-207****M.Code : 54026****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTIONS TO CANDIDATES :**

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

SECTION-A**1. Answer briefly :**

- (a) What is difference between allowances and tolerances?
- (b) Name different types of riveted joints.
- (c) What is the function of safety valve? How it operates?
- (d) In which case, knuckle joint is preferred over cotter joint?
- (e) What is the application of expansion pipe joint?
- (f) What is difference between aligned and unidirectional system of dimensioning?
- (g) With suitable sketch, explain the method of dimensioning of
 - i) Arc
 - ii) Angle
- (h) What is the function of a bush?
- (i) What are the advantages of using a pin type flexible coupling?
- (j) Draw a freehand sketch of union joint used in pipe fitting.

SECTION-B

2. Explain various types of weld joints with the help of drawings.
3. Draw freehand sketch of any five types of nuts and write their names.
4. Draw free hand sketch of a double riveted (zig-zag) lap joint.
5. Draw profile of BSW threads by taking pitch of 20 mm. Clearly show the calculations and show dimensions on the drawing.
6. Draw free hand sketch of single plate friction clutch.

SECTION-C

7. Assemble the parts of a Connecting rod given in Fig.1 and draw the Elevation.

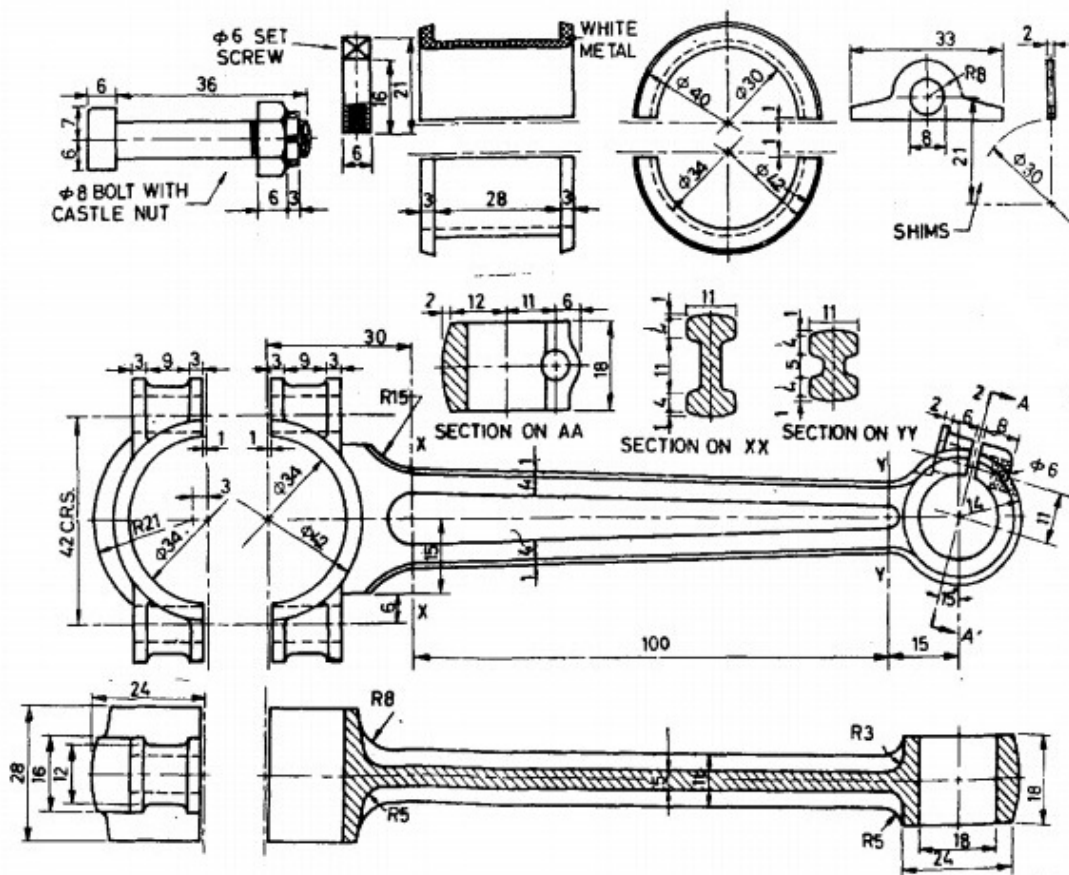


FIG. 1

