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Roll No. Total No. of Pages: 03

Total No. of Questions: 09

B.Tech.(ME) (2018 Batch) (Sem.-3)

MACHINE DRAWING

Subject Code: BTME-303-18

M.Code: 76419

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- There are three sections in this question paper. Attempt ALL the questions from SECTION-A.
- 2. Attempt any TWO questions from SECTION-B and any ONE question from SECTION-C.
- 3. First angle projection to be used. You may assume any missing dimension.

SECTION-A

Q1. Write briefly:

a) Explain clearance fit, transition fit and interference fit. 2 b) Draw a machining symbol to represent a surface roughness (R_a) value of 1.5 µm to be obtained by using milling process for machining? c) How internal threads are shown in sections? Explain with drawings. 2 d) What is function of clearance in cotter joint? 2 e) What is a lock nut? Where is it used? 2 f) What is expansion joint? 2 2 g) What is application and function of a feed check valve? h) What is a T-Bolt and where is it used? 2 2 i) What is a revolved section? Explain with the help of a drawing. j) What is application of foot step bearing? 2

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SECTION-B (FREEHAND SKETCHING)

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- Q3. Draw freehand sketches of front view and top view of a cotter joint.
- Q4. Draw a freehand sketch of flanged pipe joint.

SECTION-C

- Q5. Assemble the parts of **Connecting rod** given in Fig.1 and draw the following views (with bill of materials):
 - a) Elevation
 - b) Top view (full section)

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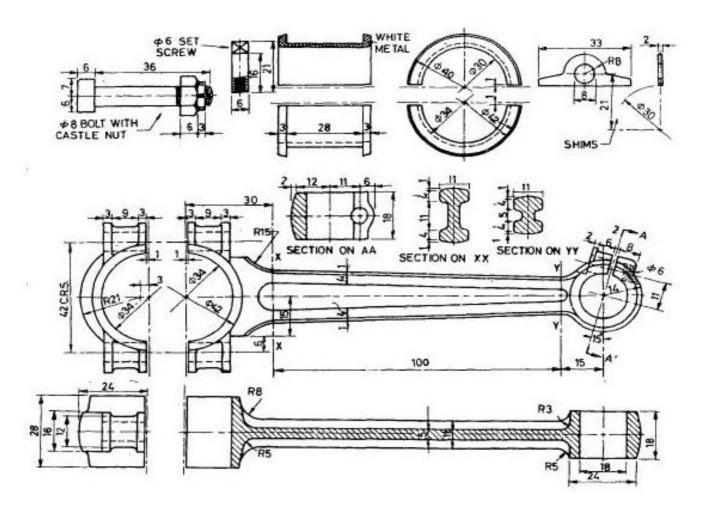


Fig. 1

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- Q6. Assemble the parts of a **Plummer block** given in Fig.2 and draw the following views (with bill of materials):
 - a) Elevation left half in section

b) Plan

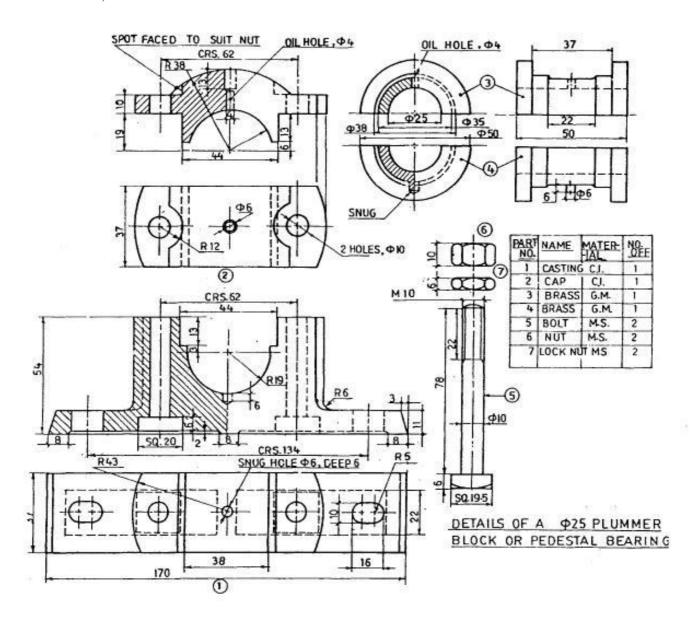


Fig. 2

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.

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