

Please check that this question paper contains _____ questions and _____ printed pages within first ten minutes.

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[Total No. of Questions: 09]

12 MAY 2023

[Total No. of Pages:]

Uni. Roll No.

Program/ Course: B.Tech. (Sem. 3rd)

Name of Subject: **Machine Drawing and Computer Aided Design**

Subject Code: **PCME-104**

Paper ID: 16075

Scientific calculator is Allowed

Detail of allowed codes/charts/tables etc.:- NIL

Time Allowed: 04 Hours

Max. Marks: 60

NOTE:

- 1) **Section-A and Section -B** are compulsory.
- 2) Attempt any one question from **Section-C**.
- 3) Any missing data may be assumed appropriately.

Section – A

[Marks: 02 each]

Q1.

- a) Describe the significance of machining symbols?
- b) Name different types of couplings?
- c) Explain the use of blow-off cock.
- d) Draw symbol of fillet welding.
- e) Why bushes are made of soft material?

Section – B

[Marks: 05 each]

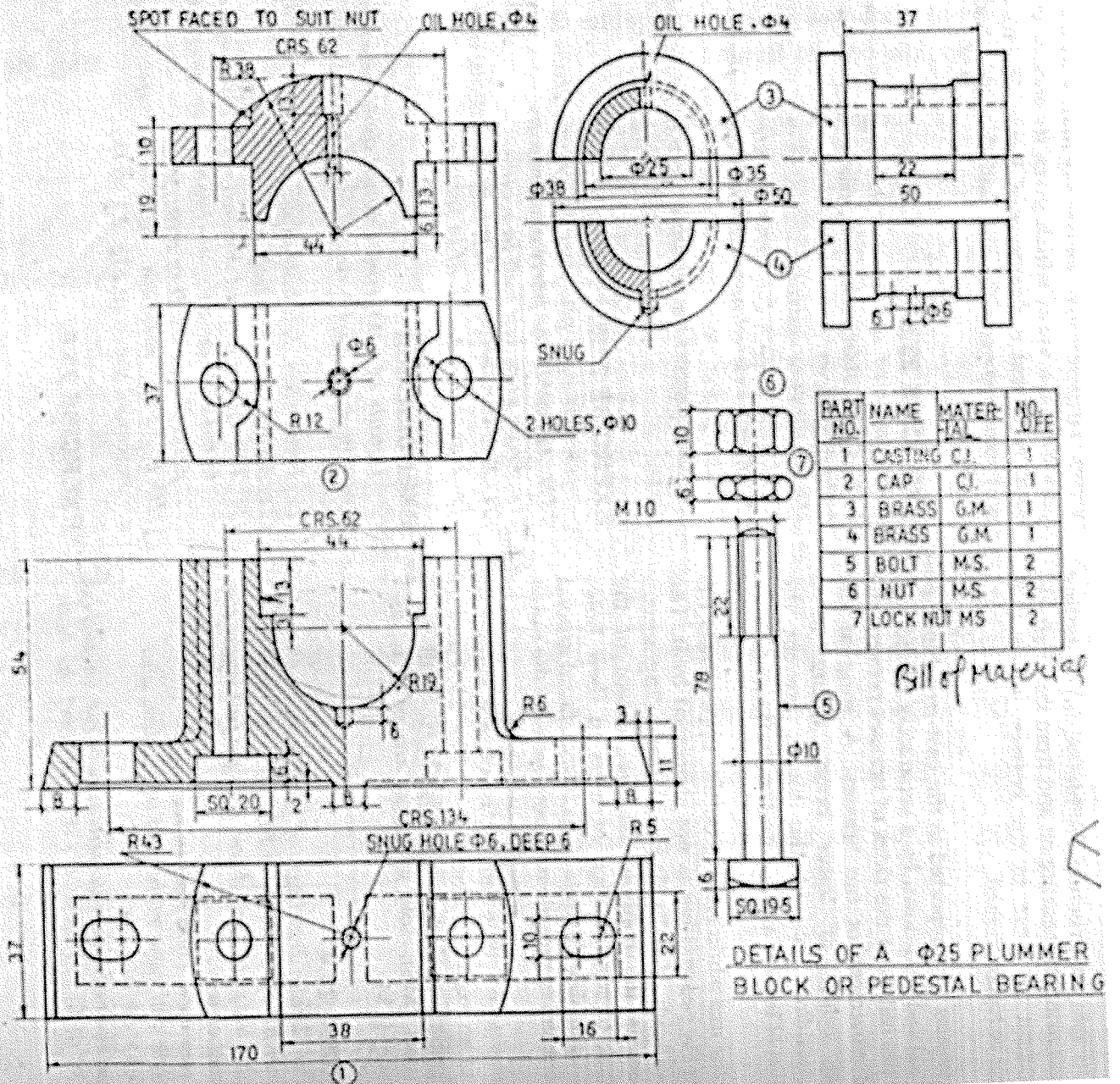
- Q2. Draw two views of square nut. Take the nominal diameter 20 mm.
- Q3. Draw the free hand front view (front half in section) of a cotter joint.
- Q4. Explain the application areas of CAD.
- Q5. Draw free hand front and side view of Oldhams coupling.

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Section - C

[Marks: 30 each]

Q6. Do the assembly of the Plummer block and draw the front and top view.



Q7. Do the assembly of connecting Rod. Draw front and side view.

