Please check that this question paper contains\_07 questions and 04 printed pages within first ten minutes.

[Total No. of Questions: 09]

[Total No. of Pages: 04]

Uni. Roll No. .....

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

Name of Subject: Machine Drawing & Computer Aided Design

Subject Code:

PCME-104

Paper ID:

16075

Time Allowed: 04 Hours

Max. Marks: 60

## NOTE:

1) The Section-A & B are compulsory

2) Attempt any one question from Section-C

3) Any missing data/dimension may be assumed appropriately

4) All drawings must be in First Angle Projection.

Section - A

[Marks: 02 each]

Q1.

- Differentiate between V-thread and Square-thread. a)
- Draw the two views of hexagonal nut (diameter=20) with at least two views. b)
- Draw convention for materials; Wood and Lead. c)
- Draw symbols for Fillet, Spot, Plug and Seam weld. d)
- Classify the three general types of Fits with examples. e)

Section - B

[Marks: 05 each]

- Make a freehand sketch of a Protected type Flange Coupling showing at least two Q2. views.
- Make a freehand sketch of a Double Riveted Double Cover Butt Joint (Zig-Zag type) O3. showing at least two views.
- What are the benefits of using Auto-CAD? Q4.
- What are various methods to draw a line in Auto-CAD? Give detail of anyone with an Q5. example.

## **EVENING**

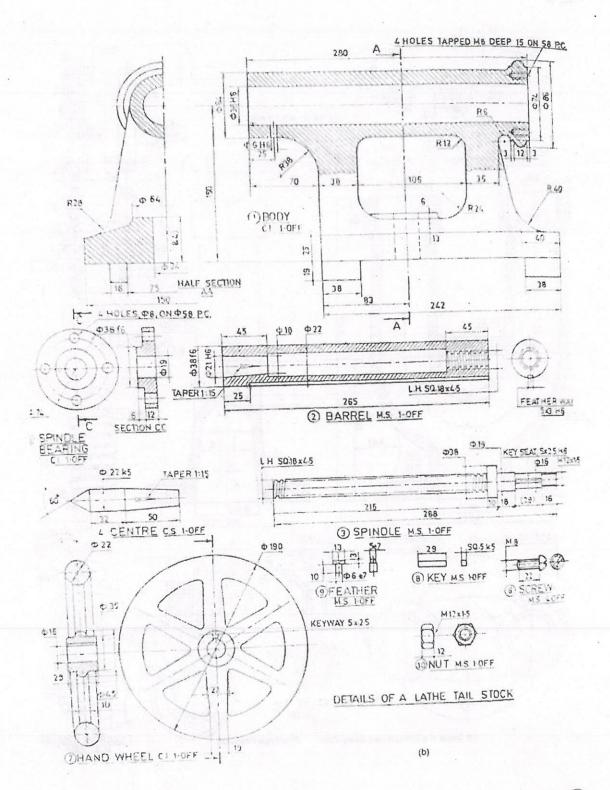
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Section - C [Marks: 30 each] Q6. The details of a Lathe Tail-Stock are given in Fig. 1. Assemble the parts and draw the following, completely dimensioned orthographic views: a) Full Sectional Front view [12] b) Right side view [06] c) Top view [04] d) Use a suitable scale. Also prepare a bill of materials and parts-list. [02] Q7. The details of a Spring-loaded Safety Valve are given in Fig. 2. Assemble the parts and draw the following, completely dimensioned orthographic views: a) Full Sectional Front view [14] b) Top view [80]

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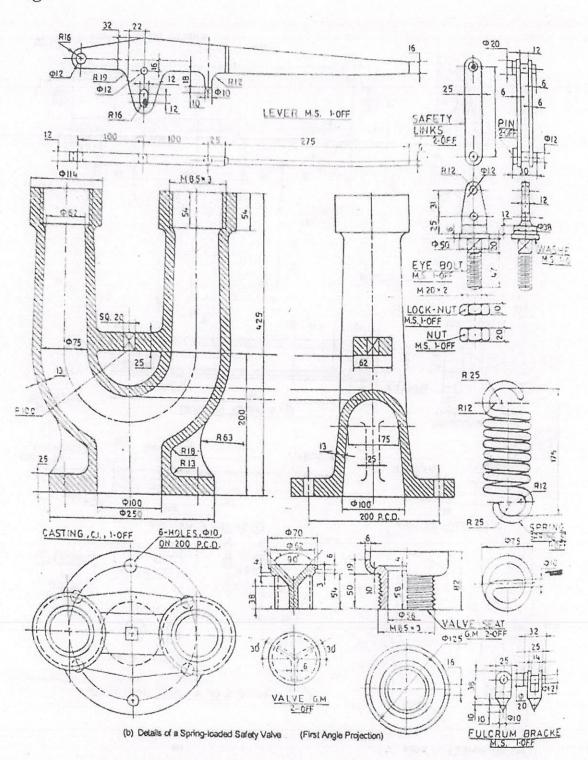
c) Use a suitable scale. Also prepare a bill of materials and parts-list.

[02]



P.T.O

Fig 2



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