Roll No ....

ME-4003-CBGS

B.E. IV Semester

Examination, December 2020

Choice Based Grading System (CBGS)

Machine Drawing and CAD

Time : Three Hours

Maximum Marks : 70

Note: i)   Attempt any five questions.

ii)   All questions are carry equal marks.

1. a)   Compare 2D and 3D wireframe modeling with respect to their utility for an engineering industry.

   b)   Explain the parametric representation of curves. Why its more used compared to non-parametric (implicit) representation?

2. Explain any five commands of the following:

   a)   Line and polyline

   b)   Circle

   c)   Hatching

   d)   Text
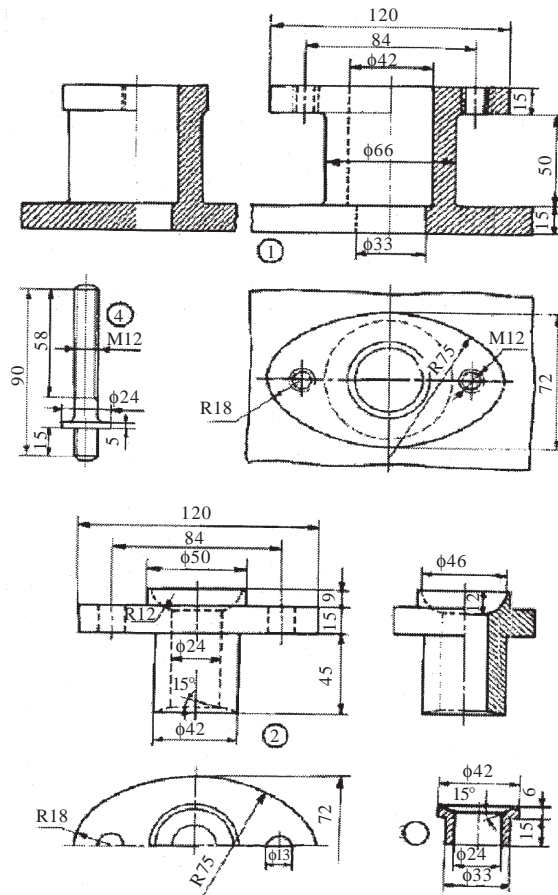
   e)   Dimensioning

   f)   Layers/levels

   g)   Colours

3. Assemble the parts of a Stuffing box, shown in figure-1 and draw
   a) Half sectional view from the front, showing top half in section and
   b) The view from the left

4. a) What do you mean by Snap and Grid? Describe their use.
   b) What is the purpose of OFFSET command? Draw a figure to show its use.

5. a) How do you create a New layer, set a layer as current and delete a layer?
   b) Differentiate between Pan, move and 200m. How do you pan a drawing?

6. a) Explain the use of EXTRUDE, SWEEP, REVOLVE and LOFT commands.
   b) Describe the use of WEDGE, CYLINDER, PYRAMID commands.

7. Write short notes on any two
   a) Knuckle joint
   b) Advantages of CAD
   c) 3D models

8. Write short note on (any two)
   i) Sectioning and section view
   ii) Representation of welded joints
   iii) Basic concepts of assembly drawing
   iv) Different types of threaded fasteners

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For Question No. 3

Parts list

Part No.	Name	Matl.	Qty.
1	Body	CI	1
2	Gland	Brass	1
3	Bush	Brass	1
4	Stud	MS	2
5	Nut M12	MS	2

Figure-1

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