No. of Printed Pages : 4   **BME-034**

DIPLOMA IN MECHANICAL ENGINEERING (DME) / ADVANCED LEVEL CERTIFICATE COURSE IN MECHANICAL ENGINEERING (DMEVI/ACMEVI)

Term-End Examination, 2019

BME-034 : MACHINE DRAWING

Time : 2 Hours   Maximum Marks : 70

Note : Answer **all** questions. Use of calculator is allowed. Assume missing data, if any.

1.   Answer **any seven** of the following questions. [7x2=14]

    (a)   Differentiate between Ist angle projection and III^{l} angle projection.

    (b)   Define Pitch of Thread.

    (c)   Draw a cutting plane line and long break line.

    (d)   Draw material symbols of steel and wood.

(e)   Name any four types of thread profile.

(f)   Draw a bolt nut and washer with suitable dimensions.

(g)   What are the type of sectioning? Explain with the help of an example.

(h)   Draw the symbol representing the following elements :

    (i)   Wing nut

    (ii)   Bearing

    (iii) Snap head rivet.

(i)   Draw the following material symbols :

    (i)   brass and bronze

    (ii)   Concrete

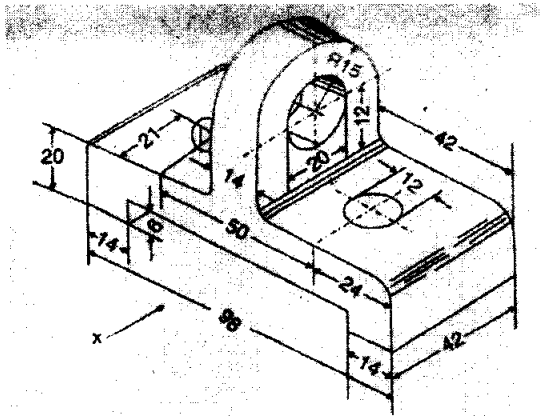2.   Figure 1 below shows the isometric view of an object. Draw the front view and top view of the given diagram.[28]

Fig. 1

3. Two 16 mm plate are joined in zig-zag riveted lap joint with the following dimensions : [16+12=28]

Diameter of hole = 21 mm, Pitch = 63 mm.

Back pitch = 50 mm, Margin = 31 mm.

Draw the front view and top view of the joint.

OR

Draw the assembled front and top view of tool post for small lathe of Figure 2.
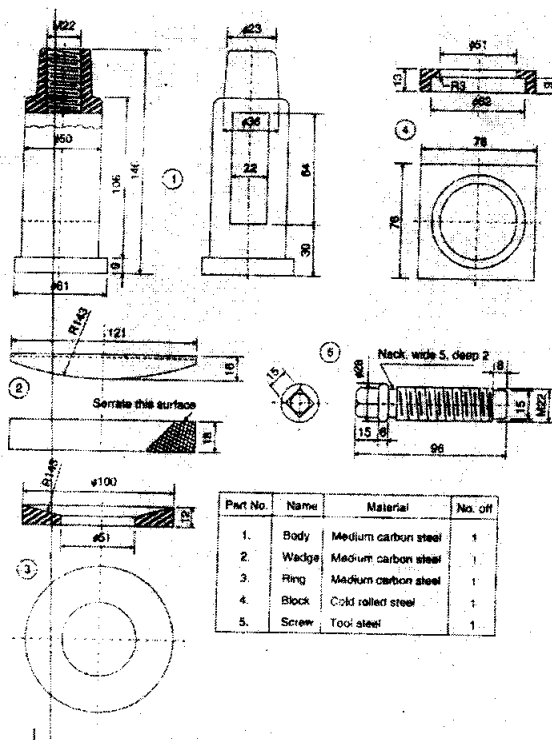
Part No.	Name	Material	No. off
1.	Body	Medium carbon steel	1
2.	Wedge	Medium carbon steel	1
3.	Ring	Medium carbon steel	1
4.	Block	Cold rolled steel	1
5.	Screw	Tool steel	1

Fig. 2 (Tool Post)

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