

C-09-M-307/C-09-MET-307

3251

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH / APRIL - 2019

DME - III SEMESTER EXAMINATION MACHINE DRAWING

Time: 3 Hours [Total Marks: 60

PART - A

 $4 \times 5 = 20$

Instructions:

- (1) Answer all the questions.
- (2) Each question caries FIVE marks.
- (3) Draw neatly (not to scale) and show the standard proportions.
- 1 Draw the following thread profiles with proportions.
 - (a) Worm (b) ACME
- Draw a plan and elevation of double riveted lap joint chain Riveted thickness of plate t = 9 mm
- 3 Draw the following pipe fitting symbols:
 - (a) Globe Valve
- (b) Tee

- (c) 90° Elbow
- (d) Reducer
- (e) Check Valve
- 4 Draw the following symbols of welded joints
 - (a) Square butt weld
- (b) Back strip

(c) Spot weld

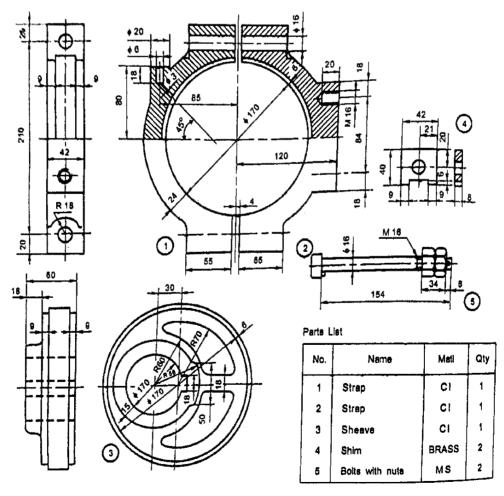
- (d) Flat single v butt weld
- (e) Fillet weld

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 $PART - B 1 \times 40 = 40$

Instructions:

- (1) Answer any **ONE** question.
- (2) Each question caries FORTY marks.
- (3) All dimensions are in mm and assume missing dimensions, If any.
- 5 The details of a steam piston eccentric are shown in Fig (1) Assemble all the parts and draw the following:
 - (a) Half-sectional front view
 - (b) Right side view
 - (c) Prepare the bill of materials



Eccentric (1)

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- 6 Assemble all parts Stuffing Box for a vertical steam engine shown in Fig (2) and draw,
 - (a) Half sectional front view
 - (b) Top view
 - (c) Dimensioning and Material table

