6247

BOARD DIPLOMA EXAMINATION, (C-16) JUNE-2019

DME - THIRD SEMESTER EXAMINATION

MACHINE DRAWING

TIME: 3 Hours Total Marks: 60

PART-A

5x4=20M

Instructions: (1) Answer all questions.

- (2) Each question carries five marks.
- (3) All dimensions are in mm.
- (4) Choose suitable scale.
- 1. Draw the profiles of
 - a) Buttress thread and b) ACME thread
- 2. Show by means of neat sketches, the following rivet heads for rivets of diameter 20m .indicate the standard proportions
 - (a) Flat head and (b) cone head
- 3. Draw the single line symbols for the following pipe fittings;
 - a) Coupling
- b) Union
- c) Cross
- d) Cap
- e) Plug
- 4. Show the welding symbols for the following types
 - (i)Double bevel butt weld
- (ii) Square butt weld

- (iii) Single J butt weld
- (iv) Backing weld
- (v) Concave fillet weld

Instructions: (1) Answer any one question.

- (2) Each question carries forty marks.
- (3) All dimensions are in mm.
- (4) Choose suitable scale
- 5.) Fig1. Shows the details of Non-return valve. Assemble all the parts and draw the following views of the assembly at scale 1:2.

(a) Elevation – full in section.

(20 M + 4 M for dimensioning)

(b) Plan (10 M + 2 M for dimensioning)

(c) Prepare material list (4 M)

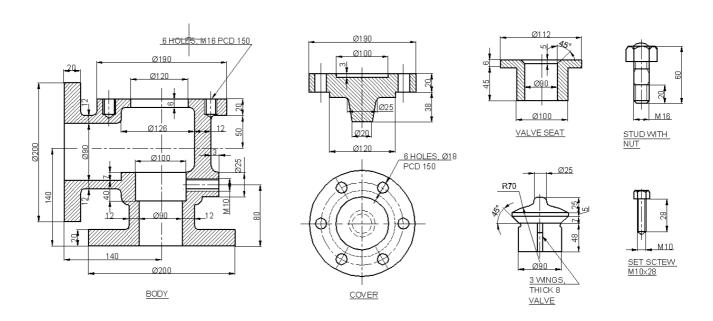


Fig.1 Parts of Non Return valve.

6) The parts of a Stuffing Box - 65 mm diameter shaft are given in Fig. 2. Assemble all the parts and draw the following views of the assembly to full scale.

(a) Elevation – full in section.
 (19 M + 5 M for dimensioning)
 (b) Plan.
 (9 M + 3 M for dimensioning)

(c) Prepare material list (4 M)

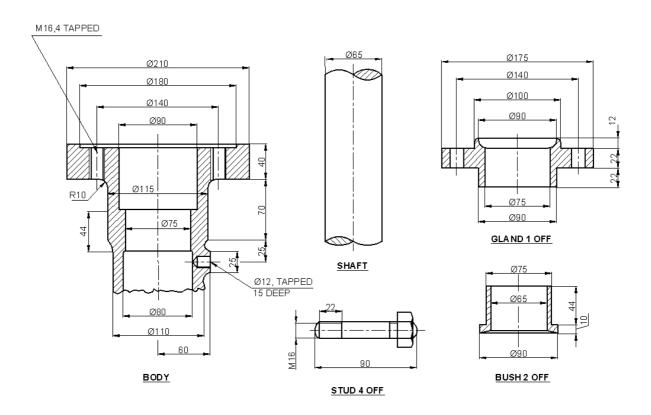


Fig.2 Stuffing Box parts