# 6247 <br> BOARD DI PLOMA EXAMI NATI ON, (C-16) <br> JUNE-2019 <br> DME - THI RD SEMESTER EXAMI NATI ON <br> MACHINE DRAWING 

## TIME : 3 Hours

Total Marks : 60

## PART-A

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5 \times 4=20 M
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I nstructions: (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 20 m .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

## PART-B

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


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.
(b) Plan.
(c) Prepare material list
( $19 \mathrm{M}+5 \mathrm{M}$ for dimensioning)
( $9 \mathrm{M}+3 \mathrm{M}$ for dimensioning)
(4 M )


Fig. 2 Stuffing Box parts

