



RN-6263

B. E. II (Sem. III) (Mech.) Examination
May / June – 2010
Machine Drawing

Time : 3 Hours]

[Total Marks : 70

Instruction :

(1)

नीचे दृशाविले निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. 2 (Sem. 3) (Mech.)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Machine Drawing"/>	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="2"/> <input type="text" value="6"/> <input type="text" value="3"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....) : <input type="text" value="1&2"/>	

- (2) Figures on **right** indicate full marks.
- (3) No marks for dimensions.
- (4) Draw the various parts in proportion.
- (5) For all questions sketch the figures free hand and proportionately.

SECTION - I

- 1 (a) Answer the following : 10
 - (i) Differentiate between square thread and 'v' thread.
 - (ii) Give the comparison between keys and cotters.
 - (iii) Sketch the headless tapered bolt.
 - (iv) Draw symbols for welded joints as recommended by the B.I.S.
 - (a) Spot
 - (b) Edge
 - (v) The depth of the thread is equal to half the difference between the _____ diameter and the _____ diameter.
- (b) Draw the neat sketch the following :
 - (i) 'T' headed bolt. 5
 - (ii) Wing nut. 5
- 2 (a) Sketch the following proportionately. Split muff coupling. 7
- (b) Sketch the two views of single riveted double strap butt joint. 8

OR

- (b) Sketch the following :
- (i) Wood ruff key. 4
- (ii) Buttress thread. 4
- 3 (a) Sketch the following proportionately - eye foundation bolt. 7

OR

- (a) Sketch the following : 7
- (i) Failure of riveted joint. 4
- (ii) Locking plate. 3
- (b) Sketch the following proportionately knuckle joint. 8

SECTION - II

- 4 (a) Answer the following questions : 10
- (i) Draw the methods of fixing a pulley.
- (ii) Draw the plug of the pipe joint.
- (iii) How to prevent rotation of brasses in bearing?
- (iv) What is the advantage of gland and stuffing-box expansion fitting of pipe joint?
- (v) What is the material used for piston ring?
- (b) Draw two views of a Wall Bracket? 10

OR

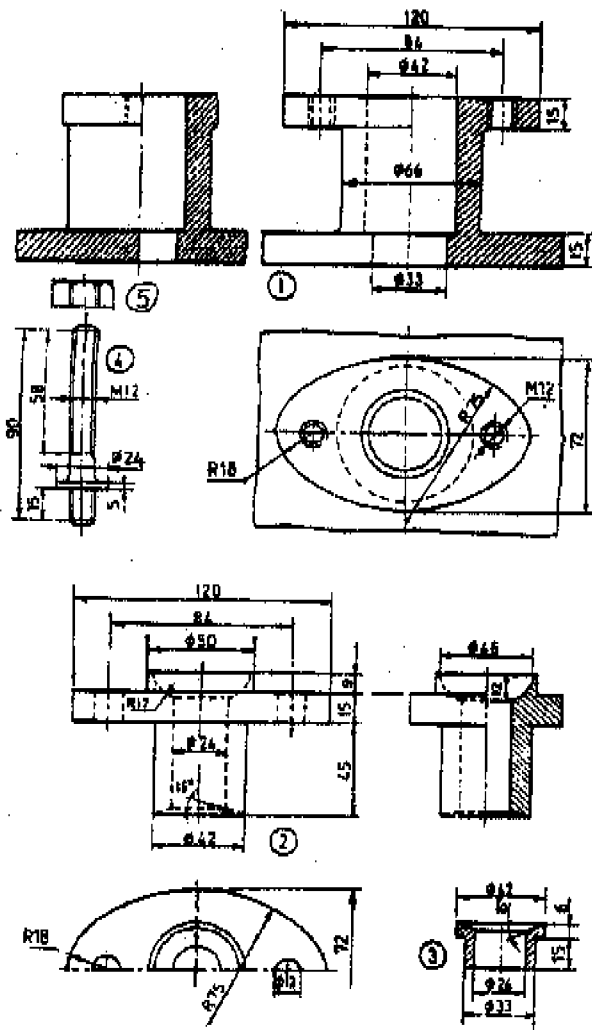
- (b) Draw two views of J-type hanger. 10
- 5 (a) Show by means of two sketch of foot-step bearing. 8

OR

- (a) Sketch neatly two views of bushed bearing. 8
- (b) Sketch neatly V-belt pulley. 7

OR

- (b) Make a neat sketches of a cross, tee and elbow type pipe joint. 7
- 6 The following details of a stuffing box are given in fig. 1. 15
- Draw the assembly with following views.
- (Assume suitable dimensions if required).
- (i) Half sectional view from the front
- (ii) Top view.



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

FIG. 1 (STUFFING BOX)