



**RN-6263**

**B. E. II (Sem. III) (Mech.) Examination**

**May / June - 2010**

**Machine Drawing**

Time : 3 Hours]

[Total Marks : 70

**Instruction :**

(1)

नीचे दृशावेल निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी.  
 Fillup strictly the details of signs on your answer book.

Name of the Examination :  
**B. E. 2 (Sem. 3) (Mech.)**

Name of the Subject :  
**Machine Drawing**

Subject Code No. : **6 2 6 3** Section No. (1, 2,.....): **1&2**

Seat No. :

Student's Signature

- (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**

**RN-6263]**

**1**

**[Contd...**

- (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.

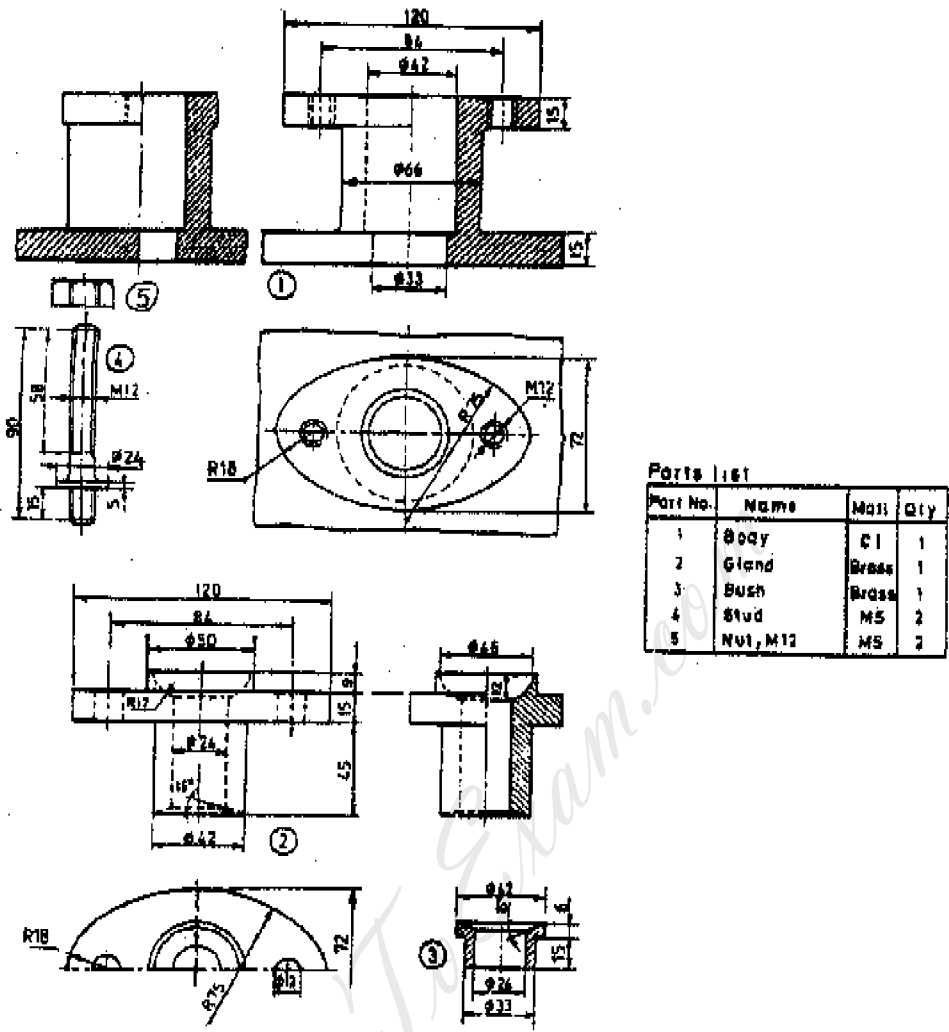


FIG. 1 (STUFFING BOX)