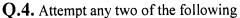
OR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD -402 103

Winter Semester Examination - December - 2019

Branch: B. Tech Mechanical Subject with Code:- Machine I Date:- 17/12/2019	Drawing and CAD (BTMEC304)	Sem.:- III Marks: 60 Time:- 3 Hr,
	ions of the following with neat sketches, diagram etc., whe ter is noticed to be missing, you may a	
		(Marks)
Q.1. Illustrate any three with a) Half section b) Removed section	c) Broke	(3×4=12) en section liary section
2. Attempt any two of a) Draw the symbol of the 1. concave fillet weld	e following	(12) (6)
 2. convex double V-l b) Draw conventional re 1. Spur gears in mesh 2. Roller bearing 	presentation for the following	(6)
	vo views of a flanged coupling.	(6)
3. Attempt any two of a) A vertical cylinder of	the following 75 mm diameter is penetrated by anoth	(12) er cylinder of 50 mm diameter.
The axis of which is	parallel to both HP & VP. The two a	xes are 9 mm apart. Draw the
projection of two cylings and the projection of two cylings are seen as the projection of	nders showing curves of intersection.	The length of both cylinders is (6)
	m of side of base 40 mm axis heigh	
inclined with V.P. A	cylinder of diameter 40 mm and leng	th 75 mm intersects the prism
마시 하는 아닐까 소리를 하다면 하지만 그 이 선생들이 모든 모든 모든	its axis is perpendicular bisector to the	•
The plane containing showing curve of inte	both the axis is parallel to V.P. D	
anowing curve of fille	I SECTIOII.	(6)

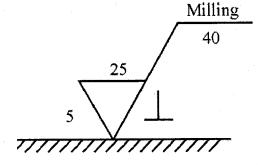
c) A cone with base diameter 70 mm & axis height 65 mm is kept on HP on its base. It is penetrated by a horizontal cylinder of diameter 35 mm with its axis parallel to VP & intersecting axis of cone at distance of 20 mm above base of cone. Draw projection of solid and curve of intersection.



(12)

a) State the meaning of following symbol as shown in Fig.

(6)



- b) State the advantages of Computer Aided Design and Drafting.
- c) A shaft and hole are given as

(6) (6)

+0.280 Shaft 50+0.120

+0.090 Hole50+0.000

Determine:

- (i) Maximum allowance (ii) Minimum allowance
- (iii) Type of fit

Q.5. Fig. shows assembly of Pedestal Bearing. Draw detailed drawing of the following.

a) Body

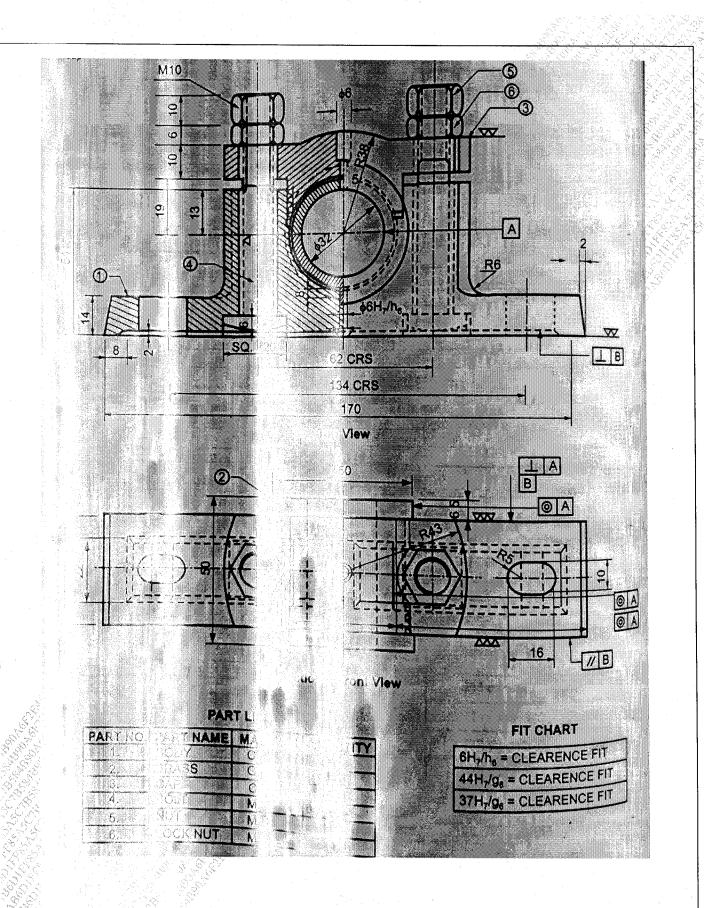
(4)

b) Brass

(4)

Cap

(4)



Q.6. Figure shows the details of 125 mm Steam Valve. Draw the assembled full sectional elevation. (12)

