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B.TECH. DEGREE EXAMINATION, MAY 2016

Fourth Semester

Branch: Automobile Engineering / Mechanical Engineering / Production Engineering / Chemical Engineering / Naval-Architecture and Ship Building Engineering

AU 010 405 / ME 010 405 / PE 010 405 / CH 010 405 / ST 010 405—MACHINE DRAWING [AU, ME, PE, CH, ST]

(New Scheme-2010 Admission onwards)

[Regular/Improvement/Supplementary]

Time: Three Hours

Maximum: 100 Marks

Drawing sheets are to be supplied.

Answer all questions.

Missing dimensions, if any may be assumed.

- 1. Show how the roughness is indicated on the component for the following situations:
 - (a) Surface to be obtained by any production method;
 - (b) Surface to be obtained without removal of material;
 - (c) Surface to be coated; and
 - (d) Surface to be given a machining allowance.

(5 marks)

2. The dimensions of a shaft and a hole are given below:

Shaft, Basic size = 60 mm. and given as 60 - 0.020

Hole, Basic size = 60 mm. and given as 60 - 0.005

Find out:

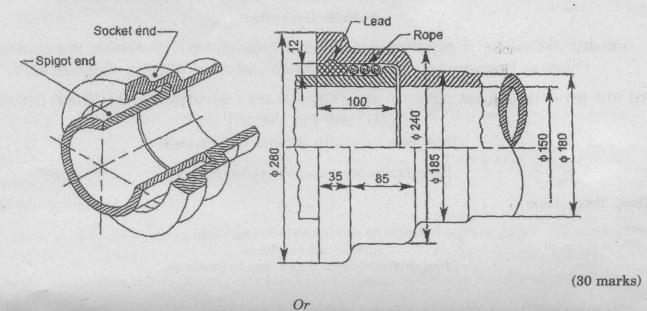
- (a) Tolerance of shaft.
- (b) Tolerance of hole.
- (c) Maximum allowance.
- (d) Minimum allowance.
- (e) Type of fit.

(5 marks)

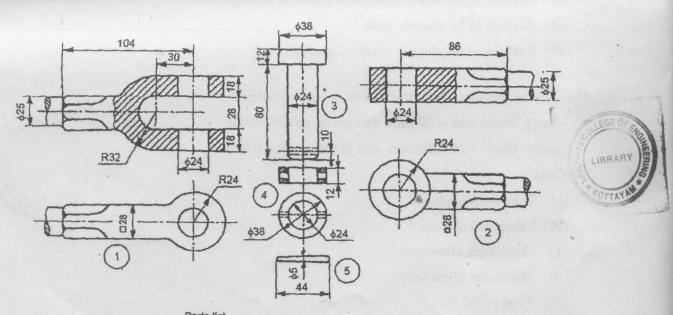
Turn over

3. Answer (a) or (b):

(a) The figure shows Socket and Spigot joint. Draw the (1) Elevation with top half in section; and (2) End view.



(b) The figure shows a knuckle joint. Draw the (1) Elevation with top half in section; and (2) End view.



SI. No.	Name	Matl.	Oty.
1	Fork end	Forged steel	1
2	Eye end	Forged steel	1
3	Pin	Mild steel	1
4	Collar	Mild steel	1
5	Taper pin	Mild steel	1

- 4. The figure shows (on Page 4) the details of a lathe tailstock. Assemble the components and draw the following views:
 - (a) Full sectional front view.
 - (b) Top view.

(40 + 20 = 60 marks)



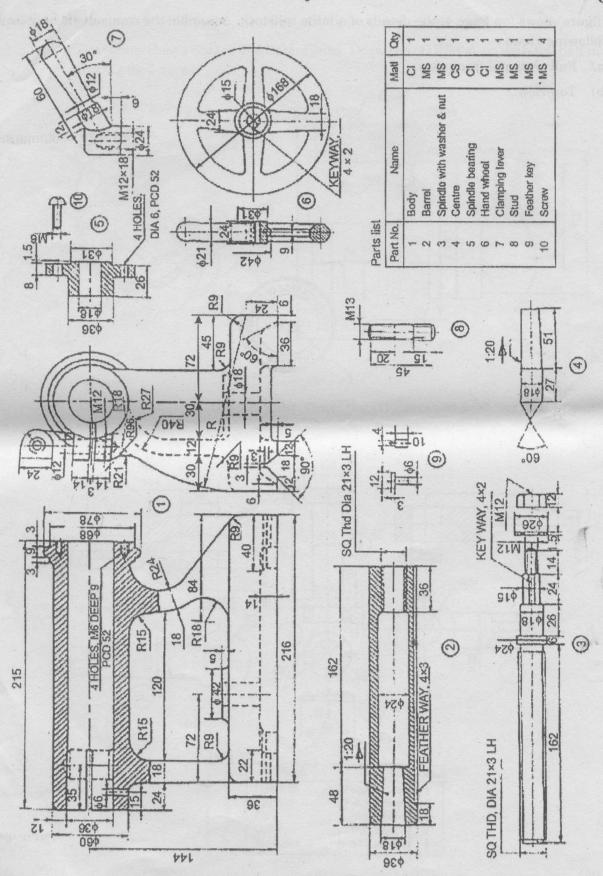


Fig. lathe tailstock

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