FACULTY OF ENGINEERING

B.E. 4/4 (M/P) II - Semester (New) (Main) Examination, April / May 2014

Subject: Production Drawing

Max.Marks: 75

Note: Answer all questions from Part A. Answer all questions from Part B. PART – A (25 Marks)

- A schematic representation of basic size and its deviations are given. Calculate the following in each case for a shaft size of 50 mm basic size (i) Upper and lower deviation, (ii) Upper and lower size, (iii) Tolerance.
- 2 Compute the limit dimensions for a clearance fit on the hole basis system for a basic size of 40 mm diameter, with a minimum clearance of 0.05 mm, tolerance on the hole 0.021 mm and the shaft tolerance of 0.15 mm.
- 3 What is meaning of the following surface finish symbol.

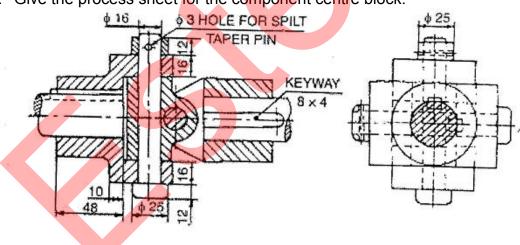
minn minn

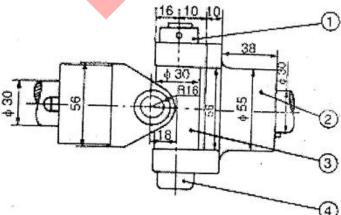
What is meaning and values of the following surface roughness and sketch lay symbols. 3 4 R, M, ∇ What is surface finish symbol specification – Give all information. 3 5 What is RMS value of surface finish? Explain with a neat diagram. 3 6 2 7 What are geometric features of Form Tolerencing? Explain with help of neat diagram. What are geometric features of position tolerencing? Explain with help of neat diagram. 8 2.5 9 Give a neat sketch of layout of title block with various contents. 2.5

PART – B (50 Marks)

- 11 Draw the following components and give necessary dimensional and geometric tolerances and surface roughness values. 25 (a) Pin (b) Fork (c) collar
- 12 Give the process sheet for the component centre block.

10 Give fits between the parts





Part No.	Qty.	Name	Matl.
1	2	Co lar	MS
2	2	Fork	CI
3	, 1 7	Centre block	CI
4	2	Pin	MS

15

10

3

3

3