Hall	Ticket	Num	ber:	

Time: 3 hours



Code No.: 21412 S

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD B.E. II Year (Mech. Engg.) I-Semester Supplementary Examinations, May/June-2017

Machine Drawing

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 X 2=20 Marks)

- 1. Draw the layout of a drawing sheet showing the grid reference system.
- 2. Sketch the conventional representation of the following.

a) bearings b) spur gear

- 3. Name the features which should not be shown hatched when they are sectioned longitudinally.
- 4. Show examples of aligned method and uni-directional system of dimensioning.
- 5. Explain the following, indicating the symbol to be used in each case.

a) First angle projection b) Third angle projection

- 6. What is a splined shaft?
- 7. What are the uses of a flexible coupling?
- 8. What is a key and state its purpose with a sketch.
- 9. What is a multi-start thread and how it differs from a single start thread?
- 10. Sketch two views of a hexagonal bolt of M30 and show the proportions and dimensions.

Part-B $(1 \times 50 = 50 \text{ Marks})$

11. Assemble all parts of the Cross-head given in figure and draw half-sectional front view (with upper half in section) and left side view.

Refer overleaf for figure

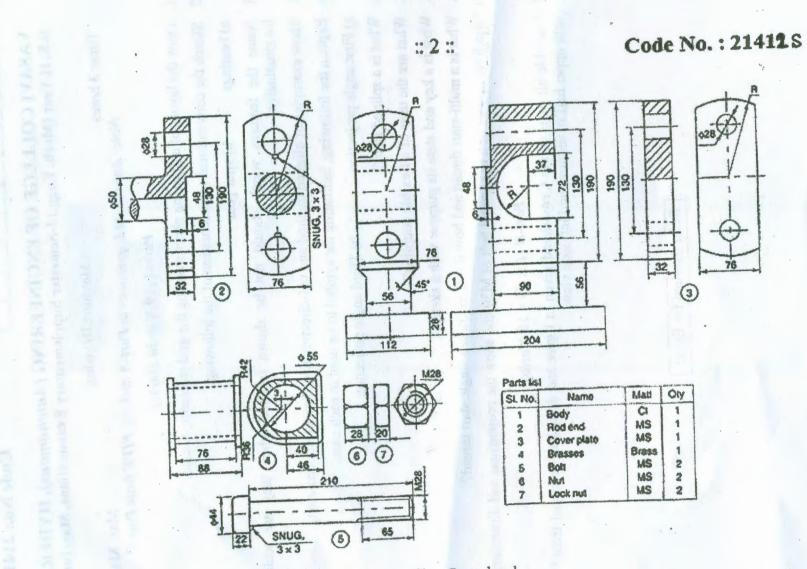


Fig. Cross-head

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