Subrat Kutty

Total time: 70 minutes	Exam date: 21-09-2013	Total marks: 50
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NOTE: (1) Answer all 50 questions. (2) Each question carries 1 mark. (3) No Step marking. (4) This exam paper contains 6 pages printed on both sides.

1. A cube of 40 mm is freely suspended from one of its corners; the center of gravity of this cube is at __$40\sqrt{3}/2$__ mm from base. ✗   (0)

2. The sum of the distances of a point on the ellipse from the two foci is equal to __length of major axis__. (1)

3. In a drawing sheet, left margin is drawn at __20__ mm away from its edge. (1)

4. Draw strokes for letter "B".   B ✗   (0)

5. If a line is inclined at 30° to HP and 60° to VP, then its true length can be seen in __side__ view. (1)

6. What is the least count of mini-drafter you are using in drawing lab? __1 mm__ (1)

7. A line PQ inclined at 30° to the HP and parallel to VP, it will have __1__ trace(s). (1)

8. Eccentricity of conics is a ratio of distance between vertex and __focus__ to distance between vertex and directrix. (1)

9. __Arc of circle / Oblong__ method is used to draw an ellipse, if major and minor axis given. (1)

10. Any chord perpendicular to the axis of parabola is called __double ordinate__. (1)

11. If the asymptotes are perpendicular to each other then the hyperbola is called __rectangular hyperbola__. (1)

12. The cycloid is called the __hypocycloid__ when the generating circle rolls along another circle inside it.

13. Vernier and diagonal scales can measure length with the same precision. True or false? __True__

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