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## Answers - Mathematics Mock Test X S. A. II March 2011

### Section A MCQ's 1 Mark Each

Answers provided by

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1. (a)  $k = \pm 2$
2. (a)  $4n + 2$
3. (c)  $55^\circ$
4. (d) 8
5. (b) 2
6. (c) 135
7. (a) 40 m
8. (d)  $\pm 3$
9. (d) none of these [ Area = 7.5 square cm.]
10. (d)  $\sqrt{65}$  units

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### Section B 2 Marks Each

11. Yes.  
Equation with rational coefficients  $x^2 + 0x - 3 = 0$ .  
Roots are  $\pm\sqrt{3}$  both irrational.
12. common difference not equal.
13. Yes. Reason: angles in alternate segment.
14. No. A tangent cannot be drawn from a point in the interior of the circle.
15. Yes. Distance travelled = circumference of circle.
16. No.
17. No.
18.  $\pi r(2h + 3r)$

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### Section C 3 Marks Each

19. Solve the following quadratic equation:  $x = 5, \frac{5}{2}$

20. (i)  $\frac{91}{99}$  (ii)  $\frac{9}{99}$

21.  $3, -1, -5, -9, \dots$

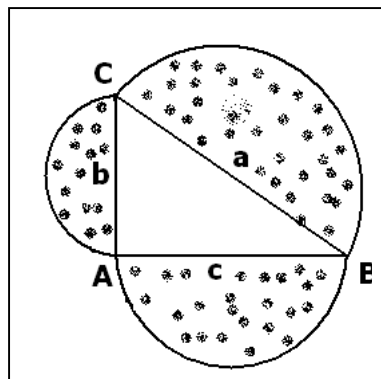
22. Construction

23.  $x = 6, y = 3$

25. height of tower = 4.325 m.

26.  $8, \frac{1}{2}$

27. Area in square units =  $\frac{\pi}{2}(a^2 + b^2 + c^2)$   
=  $\pi a^2$   
=  $\frac{\pi}{2}(2a^2)$   
=  $\pi a^2$



28. 30 hectares

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29. Surface Area =  $\frac{44}{7}(2\sqrt{2} + 7)m^2$  or 61.73 m<sup>2</sup>  
Volume = 52.38 m<sup>3</sup>
30. 3, 7, 11,...
- 31.
32. height = 30 m, horizontal distance =  $30\sqrt{3}$  m
33. speed = 42 km/h
34. (5, 6), (11, 12), and (1, 2). Find the coordinates of the vertices of the triangle.

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