

Find the value of the following without using trigonometric tables:

$$\frac{\cos 50^\circ}{2 \sin 40^\circ} + \frac{4(\operatorname{cosec}^2 59^\circ - \tan^2 31^\circ)}{3 \tan^2 45^\circ} - \frac{2}{3} \tan 12^\circ \cdot \tan 78^\circ \cdot \sin 90^\circ$$

18. Prove that  $\cos \theta (\sin \theta - 2 \sin^3 \theta) = \sin \theta (2 \cos^3 \theta - \cos \theta)$

19. If  $\sec \theta + \tan \theta = p$ , show that  $\frac{p^2 + 1}{2p} = \sec \theta$

20. Find the mode of the following frequency distribution:

Class	14 – 16	16-18	18-20	20-22	22-24
Frequency	2	3	6	5	4

### Section – D

Questions from 21 to 31 carry four marks each.

21. 6 retired teachers, 8 retired doctors and 10 retired defense officers are willing to render their services to a village. Each of teacher, doctor and defense officers serves equal number of different persons in that village.

- Find least number of persons served by each.
- Suggest the value depicted in the question.

22. Represent the following pair of linear equations graphically

$$x + y = 7$$

$$5x + 2y = 20$$

From the graph, find the points where the lines represented by these equations intersect the x-axis.

23. The present age of a father is three years more than three times the age of the son. Three years hence, father's age will be 10 years more than twice the age of the son. Determine their present ages.

24. Find the values of p and q so that 1 and -2 are the zeroes of the polynomial  $p(x) = x^3 + 10x^2 + px + q$ . Also find its third zero.

25. In the figure given below,  $\triangle PQR$  is right angled at Q and the points S and T trisect the side QR. Then prove that  $8PT^2 = 3PR^2 + 5PS^2$ .



26. Prove that the ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.

27. If  $\tan \theta + \cot \theta = 4$  find the values of  $\tan^4 \theta + \cot^4 \theta$

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## **Table of Contents Maths Question Paper Grade 10 November 2013**

1. Understanding the eBook Maths Question Paper Grade 10 November 2013
  - The Rise of Digital Reading Maths Question Paper Grade 10 November 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths Question Paper Grade 10 November 2013
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Maths Question Paper Grade 10 November 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Question Paper Grade 10 November 2013
  - Personalized Recommendations
  - Maths Question Paper Grade 10 November 2013 User Reviews and Ratings
  - Maths Question Paper Grade 10 November 2013 and Bestseller Lists
5. Accessing Maths Question Paper Grade 10 November 2013 Free and Paid eBooks
  - Maths Question Paper Grade 10 November 2013 Public Domain eBooks
  - Maths Question Paper Grade 10 November 2013 eBook Subscription Services
  - Maths Question Paper Grade 10 November 2013 Budget-Friendly Options
6. Navigating Maths Question Paper Grade 10 November 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Maths Question Paper Grade 10 November 2013 Compatibility with Devices
  - Maths Question Paper Grade 10 November 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maths Question Paper Grade 10 November 2013
  - Highlighting and Note-Taking Maths Question Paper Grade 10 November 2013
  - Interactive Elements Maths Question Paper Grade 10 November 2013
8. Staying Engaged with Maths Question Paper Grade 10 November 2013

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Maths Question Paper Grade 10 November 2013
- 9. Balancing eBooks and Physical Books Maths Question Paper Grade 10 November 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Question Paper Grade 10 November 2013
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Question Paper Grade 10 November 2013
  - Setting Reading Goals Maths Question Paper Grade 10 November 2013
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Question Paper Grade 10 November 2013
  - Fact-Checking eBook Content of Maths Question Paper Grade 10 November 2013
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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