

MATHEMATICS

2013

Time: 30 minutes

Max. Marks: 20

SECTION 'A' MULTIPLE CHOICE QUESTION

1. Choose the correct answer for each from the given options: (20)

(i) In the relation $R = \{(2, -3), (2, 6), (2, 3)\}$ the range of R is:
(a) $\{3, 6\}$ (b) $\{2\}$ (c) $\{2, 3\}$ (d) None of them.

(ii) If $A = \begin{bmatrix} 5 & 6 \\ 3 & -1 \end{bmatrix}$, then $A^t =$

(a) $\begin{bmatrix} 3 & -1 \\ 5 & 6 \end{bmatrix}$ (b) $\sqrt{\begin{bmatrix} 5 & 3 \\ 3 & -1 \end{bmatrix}}$ (c) $\begin{bmatrix} -1 & 3 \\ 6 & 5 \end{bmatrix}$ (d) $\begin{bmatrix} 5 & 6 \\ 3 & -1 \end{bmatrix}$

(iii) The degree of given polynomial $\sqrt[3]{(a^2 - b)^3}$ is:

(a) 1 (b) 3 (c) 2 (d) 5

(iv) The logarithmic form of $2^5 = 32$ is:

(a) $\log_{32} 5 = 2$ (b) $\log_2 32 = 5$ (c) $\log_5 32 = 2$ (d) None of these

(v) The characteristics of 6.67×10^{-11} is:

(a) 3 (b) -3 (c) 5 (d) None of them

(vi) Diameter is twice of the:

(a) Radius (b) perpendicular (c) chord (d) tangent

(vii) If $5 : 8 :: 5 : x$, then value of x is:

(a) 40 (b) 25 (c) 5 (d) 8

(viii) The solution set of $|y - 3| = 4$ is:

(a) $\{-1, 2\}$ (b) $\{-2, -2\}$ (c) $\{7, -1\}$ (d) $\{1, 3\}$

(ix) If $x = \{2, 3, 5, 7, 11\}$, then all the numbers in x are:

(a) Prime numbers

(b) Natural numbers

(c) Odd numbers

(d) Even numbers

(x) $\sqrt{1 - \sin^2 \theta} = \dots\dots\dots$

(a) $\cos \theta$ (b) $\tan \theta$ (c) $\sec \theta$ (d) $\sin \theta$

(xi) A circle which touches all the sides of a triangle is called: (a) Inscribed circle (b) Escribed circle

(c) circum circle (d) None of them

(xii) $\cot x =$ (a) $\frac{\sqrt{\cos x}}{\sin x}$ (b) $\frac{\sin x}{\cos x}$ (c) $\frac{1}{\cos x}$ (d) $\frac{1}{\sec x}$

(xiii) If $a : b :: b : c$ then b is called:

(a) 1st proportion

(b) Mean proportion

(c) 4th proportion

(d) None of them

(xiv) The value appears most often in a set of data is called:

(a) Arithmetic mean (b) Median (c) Mode (d) Average

(xv) The multiplicative inverse of $-\frac{1}{2}$ is:

Matric Past Papers 2013

Jin-Ying Zhang



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Table of Contents Matric Past Papers 2013

1. Understanding the eBook Matric Past Papers 2013
 - The Rise of Digital Reading Matric Past Papers 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Matric Past Papers 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 Matric Past Papers 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matric Past Papers 2013
 - Personalized Recommendations
 - Matric Past Papers 2013 User Reviews and Ratings
 - Matric Past Papers 2013 and Bestseller Lists
5. Accessing Matric Past Papers 2013 Free and Paid eBooks
 - Matric Past Papers 2013 Public Domain eBooks
 - Matric Past Papers 2013 eBook Subscription Services
 - Matric Past Papers 2013 Budget-Friendly Options

6. Navigating Matric Past Papers 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Matric Past Papers 2013 Compatibility with Devices
 - Matric Past Papers 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matric Past Papers 2013
 - Highlighting and Note-Taking Matric Past Papers 2013
 - Interactive Elements Matric Past Papers 2013
8. Staying Engaged with Matric Past Papers 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matric Past Papers 2013
9. Balancing eBooks and Physical Books Matric Past Papers 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matric Past Papers 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Matric Past Papers 2013
 - Setting Reading Goals Matric Past Papers 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Matric Past Papers 2013
 - Fact-Checking eBook Content of Matric Past Papers 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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