

Government of Karnataka - Zilla Panchayath, Ramanagara
DDPI Office, Department Of School Education,
Ramanagara District
SSLC Preparatory Examination (Practice Examination) 1: 2024-25
Subject: Mathematics
Medium: English

Timings: 10 am To 1.15 pm **Subject Code: 81 E**
Maximum Marks: 80 **Date: 18-01-2025**

General Instructions to the Candidate:

- This question paper consists of 20 questions.
- Follow the instructions given against the questions.
- Figure on the right hand margin indicates maximum marks for the questions.
- The maximum time to answer the paper is given at the top of the question paper. It includes 15 minutes for reading the question paper.

1. Four alternatives are given for each of the following questions / incomplete statements. Choose the correct alternative and write the complete answer along with its letter of alphabet.

Q = 1 = 1

- The product of HCF and LCM of two numbers 6 and 20 is
(A) 20 (B) 24 (C) 60 (D) 120
- The pair of lines represented by linear equations $2x + 3y = 5$ and $4y + 6x = 15$ are
(A) Intersecting lines. (B) Perpendicular lines.
(C) Parallel lines. (D) Coincident lines.
- The sum of first 'n' even natural numbers is
(A) $2n^2 + n$ (B) $n^2 + n$ (C) $n + n^2$ (D) $n^2 + 2n$
- The distance of the point $P(x, y)$ from the origin is
(A) $\sqrt{x^2 + y^2}$ (B) $\sqrt{x^2 + y}$ (C) $\sqrt{x^2 - y}$ (D) $\sqrt{x^2 - y^2}$
- The line which passes through two points of a circle is
(A) Secant (B) Radius (C) Tangent (D) Chord
- The formula to find the volume of a sphere is
(A) $\frac{4}{3} \pi r^2$ (B) $\frac{4}{3} \pi r^3$ (C) $\frac{4}{3} \pi r^4$ (D) $\frac{4}{3} \pi r^5$

[Turn over

2

The difference between two positive numbers is 20 and if one number is three times the other, then find the numbers.

- Find the discriminant of the quadratic equation $2x^2 - 4x + 3 = 0$ and hence write the nature of roots of the equation.
- Find the distance between the points $P(4, -1)$ and $Q(7, 5)$ using distance formula.

OR

Find the coordinates of the midpoint of the line segment joining the points $A(2, -3)$ and $B(6, 13)$.

- Prove that $\sin 45^\circ \cos 30^\circ + \sin^2 30^\circ = \tan 45^\circ$.
- In ΔPQR , if $\angle PM = \angle PM$ and $\angle PM = \angle PM$, then prove that MMR is trapezium.



- What is the sum of the probability of all the elementary events of a random experiment?
 - Which of the following is an elementary event?
Event A : Getting a head when a coin is tossed once.
Event B : Getting a number less than 6 when a die is thrown once.

Q = 3 = 27

IV. Answer the following questions :

- Prove that $\sqrt{2}$ is an irrational number.
- Find the zeroes of the quadratic polynomial $x^2 + 7x + 10$, and verify the relationship between the zeroes and the coefficients.
- Mark a point E on the side BC of a parallelogram ABCD and join AE. Diagonal BD intersects AE at F. Prove that $BF^2 = EF \times FB \times FD$.
- Two farmers, A and B, had a total of 34 sheep. After both of them sold 4 sheep each, the product of the number of sheep they had left was 168. Find the number of sheep each had.

3

- The empirical relationship between the three measures of central tendency is
(A) Mode = 3 Median + 2 Mean
(B) Mode = 3 Median + 2 Mean
(C) Mode = 2 Median + 3 Mean
(D) Mode = 2 Median + 3 Mean
- If the probability of an event 'E' is 0.54, then the probability of the event 'not E' is
(A) 0.45 (B) 0.44 (C) 1.0 (D) 0.46

II. Answer the following questions :

Q = 1 = 10

- Express 110 as a product of its prime factors.
- Write the number of solutions of the linear equations $x + 2y + 5 = 0$ and $3x + 4y + 7 = 0$.
- If 4, x, 12 are in an arithmetic progression, then find the value of 'x'.
- Express the quadratic equation $\frac{x+2}{x} = \frac{3}{x}$ in the standard form.
- If $\sec \theta = 5$, then find the value of $\sin \theta$.
- In the given figure, if TP and TQ are the two tangents to a circle with centre 'O' such that $\angle POQ = 130^\circ$, then find $\angle PTQ$.



- The area of the circular base of a cylinder is 154 cm^2 and its height is 10 cm. Find the volume of the cylinder.
- "A die is thrown twice". What is the number of possible outcomes in this random experiment?

III. Answer the following questions :

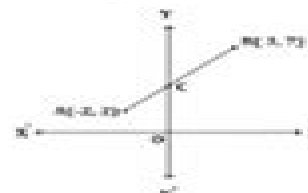
Q = 2 = 54

- Find the 20th term of the arithmetic progression 1, 7, 13, using formula.
- Write the general form of a cubic polynomial. Write the maximum number of zeroes of a cubic polynomial.
- Solve the given pair of linear equations by elimination method :
 $2x + y = 9$
 $x - y = 3$

OR

4

In the figure, find $AC = CB$ using suitable formula. And hence find the coordinates of the point C.



- Prove that $(\cos \theta - \tan \theta)^2 = \frac{1 - \sin \theta}{1 + \sin \theta}$.

OR

Prove that $\frac{\sin A}{1 + \cos A} + \frac{1 + \cos A}{\sin A} = 2 \csc A$.

- Prove that "the lengths of tangents drawn from an external point to a circle are equal."
- Find the mean for the following frequency distribution table :

Class Interval	5 - 15	15 - 25	25 - 35	35 - 45	45 - 55
Frequency	3	4	5	6	2

OR

Find the mode for the following frequency distribution table :

Class Interval	4 - 8	8 - 12	12 - 16	16 - 20	20 - 24
Frequency	2	7	9	6	1

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G Psacharopoulos



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Table of Contents 2013 Mathematics Preparatory Examination Pmemorandum

1. Understanding the eBook 2013 Mathematics Preparatory Examination Pmemorandum
 - The Rise of Digital Reading 2013 Mathematics Preparatory Examination Pmemorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Mathematics Preparatory Examination Pmemorandum
 - 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 2013 Mathematics Preparatory Examination Pmemorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Mathematics Preparatory Examination Pmemorandum
 - Personalized Recommendations
 - 2013 Mathematics Preparatory Examination Pmemorandum User Reviews and Ratings

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