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SSC-(P-D)- A/2024
(For All Sessions)

Paper Code	5	1	9	1
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Mathematics (Science Group)
(Objective)

Time: 20 Minutes

(Group-I)

Marks : 15

ریاضی (سائنس گروپ) معروضی

نوٹ: تمام سوالات کے جوابات دی گئی معروضی جوابی کاپی پر لکھیں ہر سوال کے چار ممکنہ جوابات A, B, C اور D دیئے گئے ہیں، جس کو آپ درست سمجھیں، جوابی کاپی پر اس سوال نمبر کے سامنے جڑو B, A, C یا D کے دائروں میں سے متعلقہ دائرے کو مار کر یا پین کی سیاہی سے بھر دیں۔

Note: Write Answers to the Questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with Marker or Pen ink on the answer sheet provided.

- 1.1 $\begin{bmatrix} \sqrt{3} & 0 \\ 0 & \sqrt{3} \end{bmatrix}$ is called matrix. 1.1
(A) Zero صفری (B) Unit وحدانی (C) Scalar سکالر (D) Singular نادر
2. Write $4^{3/2}$ with radical sign _____ 2
(A) $\sqrt[3]{4^2}$ (B) $\sqrt[2]{4^3}$ (C) $\sqrt{4^6}$ (D) $\sqrt{8}$
3. The relation $x = \log_z y$ implies _____ 3
(A) $z^x = y$ (B) $x^z = y$ (C) $y^z = x$ (D) $y^x = z$
4. $a^3 - b^3$ is equal to _____ 4
(A) $(a + b)(a^2 + ab + b^2)$ (B) $(a - b)(a^2 - ab + b^2)$
(C) $(a + b)(a^2 - ab + b^2)$ (D) $(a - b)(a^2 + ab + b^2)$
5. Factors of $3x^2 - x - 2$ are _____ 5
(A) $(x + 1), (3x - 2)$ (B) $(x + 1), (3x + 2)$ (C) $(x - 1), (3x - 2)$ (D) $(x - 1), (3x + 2)$
6. H.C.F. of $x - 2$ and $x^2 + x - 6$ is _____ 6
(A) $(x - 2)$ (B) $x^2 + x - 6$ (C) $(x + 3)$ (D) $(x + 2)$
7. $x = \underline{\hspace{1cm}}$ is a solution of the inequality $-2 < x < \frac{3}{2}$. 7
(A) -5 (B) 0 (C) 3 (D) $\frac{3}{2}$
8. If $(x, 0) = (0, y)$, then (x, y) is _____ 8
(A) $(0, 1)$ (B) $(1, 0)$ (C) $(0, 0)$ (D) $(1, 1)$
9. Distance between the points $(1, 0)$ and $(0, 1)$ is _____ 9
(A) 1 (B) 2 (C) 0 (D) $\sqrt{2}$
10. Total parts of a triangle are: 10
(A) 6 (B) 2 (C) 4 (D) 5
11. In a parallelogram diagonals intersect each other in the ratio: 11
(A) $1:4$ (B) $1:1$ (C) $2:1$ (D) $1:3$
12. The symbol used for perpendicular is: 12
(A) $=$ (B) \leftrightarrow (C) \perp (D) \cong
13. " \sim " symbol is used for: 13
(A) Similar ایک جیسی (B) Congruent متماثل (C) Equal برابر (D) Perpendicular عمود
14. Medians of a triangle are: 14
(A) 1 (B) 3 (C) 2 (D) 4
15. The right bisectors of the three sides of a triangle are: 15
(A) Congruent متماثل (B) Collinear ہم خط (C) Concurrent ہم نقطہ (D) Parallel متوازی

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یہاں سے کاٹ کر تقسیم کریں