

→ This paper is for the student going to class **8** in the yr 2025-26 (i.e. for the student presently in class **7**)

Maximum Marks: 75

READ THE FOLLOWING INSTRUCTIONS BEFORE YOU START ANSWERING

1. In addition to the question paper, you are given **OMR** Sheet.
2. Fill up all the entries on the **OMR** Sheet carefully in the space provided in BLOCK Letters only. Incomplete/ incorrect/ carelessly filled in information may disqualify your candidature.
3. Do not fold/ damage/mutilate/spoil the OMR Sheet with unnecessary markings. Do not write anything on page -2 of **OMR** Sheet as it is evaluated by computer.
4. Use **black ink** or **blue ink** ball point pen and darken the appropriate circles in the answer sheet.
5. Ensure that the question paper consists of **75** questions. If the question paper found defective or otherwise, exchange with the correct question paper.
6. The question paper consists of **75** multiple choice questions with only one correct answer and each carries **One** mark. Blacken the appropriate circle completely corresponding to the correct answer (1/2/3/4) in **OMR** sheet.
7. There is **NO** negative marking.
8. The use of rulers, set squares and compasses is allowed, but calculators, protractors and electronic gadgets are forbidden.
9. No candidate is allowed to leave the hall till the completion of the examination.

Hall ticket number : _____

Name of the candidate : _____

1. If $(\frac{1}{6}) : (2\frac{1}{3})$, $(3\frac{1}{4}x) : (1.3)$ are in proportion then $x =$ _____.
 (1) $\frac{1}{70}$ (2) $\frac{1}{35}$ (3) $\frac{3}{70}$ (4) $\frac{2}{35}$
2. At what rate percent per annum simple interest will a sum be double itself in 8 years?
 (1) 15% (2) 14% (3) 16% (4) 12.5%
3. If $(2^6 \div 2^{-3}) \times 2^{14} = 2^x$ then the value of 'x' is
 (1) 11 (2) 17 (3) 23 (4) 14
4. Which of the rational number $\frac{-5}{16}, \frac{-13}{24}, \frac{3}{-4}, \frac{7}{-12}$ is the smallest?
 (1) $\frac{-5}{16}$ (2) $\frac{-13}{24}$ (3) $\frac{3}{-4}$ (4) $\frac{7}{-12}$
5. The area of a square and a rectangle are equal. If the side of the square is 40 cm, and the breadth of the rectangle is 25 cm, then the length of the rectangle is
 (1) 60 cm (2) 62 cm (3) 64 cm (4) 68 cm
6. What should be added to $a^2 + ab + b^2$ to obtain $4ab + b^2$?
 (1) $4ab - b^2$ (2) $3ab - a^2$ (3) $3ab + a^2$ (4) $4ab + b^2$
7. What will be the number of edges of a solid if there are 12 vertices and 20 faces ?
 (1) 32 (2) 28 (3) 30 (4) 42
8. The number of lines of symmetry in a regular hexagon is
 (1) 12 (2) 8 (3) 10 (4) 6
9. In a ΔABC if $2\angle A = 3\angle B = 6\angle C$. Then the value of $\angle B$ is
 (1) 30° (2) 45° (3) 60° (4) 90°
10. The radius of a circle is 10 cm and a point located at a distance of 15 cm from the centre. The greatest distance from the circle is ____ cm
 (1) 15 (2) 5 (3) 20 (4) 25
11. Two poles of 8m and 14m stand upright on a plane ground, if the distance between their tops is 10m, find the distance between their feet.
 (1) 8 m (2) 10 m (3) 12 m (4) 6 m

Space for rough work

A large, light blue watermark logo consisting of the letters "ISGCI" repeated diagonally across the page. The letters are stylized with horizontal bars through them.

- [SGCC]**

15. Number of positive factors of 528 are
 (1) 8 (2) 9 (3) 20 (4) 12
16. If the area of a rectangle is 144 sq.m and the sides ratio is 4 : 9 then the sides are _____m, _____m
 (1) 36, 16 (2) 12, 12 (3) 16, 9 (4) 8, 18
17. A number 430 is divided into three parts x, y, and z such that $x : y : z = 2 : 3 : 5$ then $z - x =$ _____
 (1) 86 (2) 129 (3) 43 (4) 215
18. $150\% x = 135$ then 'x' = _____
 (1) 100 (2) 135 (3) 90 (4) 120
19. $(0.1598 - 0.1379)1000 - 0.1 =$ _____
 (1) 21.8 (2) 218.9 (3) 20.9 (4) 21.89
20. In which quadrilateral are the diagonals equal ?
 (1) Parallelogram (2) Rhombus (3) Trapezium (4) Square
21. The mean of first 7 nonzero multiples of 7 is
 (1) 35 (2) 28 (3) 21 (4) 42
22. If two parallel lines are intersected by a transversal then which of the following is true
 (1) Corresponding angles are not equal (2) co-interior angles are equal
 (3) Alternate interior angles are not equal (4) co-interior angles are supplementary
23. $\frac{8^{11} - 8^{10} - 8^9}{4^{15} - 4^{14} - 4^{13}} =$ _____
 (1) 10 (2) 12 (3) 110 (4) 55
24. In $\triangle ABC$, $AB = 5$ cm, $\angle B = 45^\circ$ $BC = 3$ cm, and in $\triangle PQR$, $PQ = 3$ cm, $\angle Q = 45^\circ$ $QR = 5$ cm then
 (1) $\triangle ABC \equiv \triangle PQR$ (2) $\triangle ABC \equiv \triangle QRP$ (3) $\triangle ABC \equiv \triangle RQP$ (4) $\triangle ACB \equiv \triangle PQR$
25. In $\triangle ABC$, $\angle A = 55^\circ$ $\angle B = 65^\circ$, BA is extended to D then $\angle CAD =$ _____
 (1) 65° (2) 125° (3) 115° (4) 120°

Space for rough work

ISGCCIISGCCIISGCCI

- [SGCC]**

29. A man standing in front of a plane mirror finds his image to be at a distance of 6 metre from himself. The distance of man from the mirror is _____
(1) 6 m (2) 2 m (3) 12 m (4) 3 m
30. The image formed by a plane mirror is _____
(1) Virtual and inverted (2) Virtual and of same size
(3) Real and inverted (4) Real and of same size
31. A thermometer uses _____
(1) Water (2) Air
(3) Mercury (4) None of the above
32. Heat in a liquid is transferred by _____
(1) Conduction (2) Radiation
(3) Convection (4) Conduction and Radiation.
33. The S.I. unit of energy is _____
(1) joule (2) watt (3) newton (4) erg
34. A ball rolling on the ground possesses _____
(1) Kinetic energy (2) Potential energy
(3) No energy (4) Heat energy
35. The energy stored in an electric cell is _____
(1) Chemical energy (2) Electrical energy
(3) Heat energy (4) Mechanical energy
36. Mass = density \times _____
(1) Pressure (2) Capacity (3) Volume (4) Velocity
37. A piece of paper of dimensions $1.5 \text{ m} \times 20 \text{ cm}$ has area _____
(1) 30 m^2 (2) 300 cm^2 (3) 0.3 m^2 (4) 3000 m^3
38. One litre is equal to _____
(1) 1 cm^3 (2) 1 m^3 (3) 10^{-3} cm^3 (4) 10^{-3} m^3
39. The density of a substance is 0.8 g cm^{-3} . In S.I. unit it will be _____
(1) 0.8 Kg m^{-3} (2) 0.0008 Kg m^{-3} (3) 800 Kg m^{-3} (4) $8 \times 10^3 \text{ Kg m}^{-3}$

Space for rough work

- [SGCC]

44. A freely suspended magnet rests in _____
(1) east – west direction (2) north – east direction
(3) north – west direction (4) north – south direction.
45. An electromagnet is used in _____
(1) electric oven (2) ammeter
(3) electric bell (4) radio set
46. Electricity can flow through _____
(1) wood (2) rubber (3) plastic (4) copper wire
47. We should not touch the switch with wet hands, otherwise _____
(1) electricity may pass through our body
(2) electricity may not pass through the appliance
(3) circuit may break (4) the switch may get off
48. The motion of a pendulum is _____
(1) rotatory (2) oscillatory (3) curvilinear (4) rectilinear
49. If a body covers equal distance in equal intervals of time, the motion is said to be ____
(1) uniform (2) non-uniform (3) oscillatory (4) rotator
50. The speed of light in air is _____
(1) 330 m/s (2) 3×10^{10} m/s (3) 5100 m/s (4) 3×10^8 m/s
51. Physical change among the following is:
(1) Rusting of iron (2) Burning of paper (3) Melting of ice (4) Cooking of food
52. The pH of a neutral substance is _____
(1) 0 (2) 7 (3) 14 (4) 10
53. Mixture among the following is:
(1) Salt (2) Air (3) Water (4) Sugar
54. The process in which a solid turns into a liquid is ____
(1) Freezing (2) Condensation (3) Melting (4) Evaporation
55. One of the properties of metals is _____
(1) Brittle (2) Non-conductors of heat
(3) Malleable (4) Non-lustrous

Space for rough work

[illegible]

- [SGCC]**

60. The gas released when an acid reacts with a metal is:
(1) Hydrogen (2) Oxygen (3) Nitrogen (4) Carbon dioxide
61. Among the following is an example of a reversible change:
(1) Burning of wood (2) Melting of ice
(3) Cooking of an egg (4) Rusting of iron
62. Element among the following is:
(1) H_2O_2 (2) H_2O (3) Na (4) MgO
63. The following is NOT a property of an acid:
(1) Turn blue litmus red (2) Taste bitter
(3) Release hydrogen ions in water (4) Corrosive
64. The good conductor of electricity among the following is _____
(1) Plastic (2) Rubber (3) Copper (4) Wood
65. The property of non-metals is _____
(1) Ductile (2) Poor conductors of heat
(3) Shiny (4) Malleable
66. One among the following is used to extinguish the fire caused by oil is _____
(1) Water (2) Foam (3) Sand (4) Both (2) and (3)
67. The state of matter with a definite shape and volume is:
(1) Solid (2) Liquid (3) Gas (4) Plasma
68. The main component of natural gas is _____
(1) Methane (2) Ethanol (3) Butane (4) Propane
69. The process by which plants make their own food is called:
(1) Respiration (2) Transpiration (3) Photosynthesis (4) Digestion
70. When a solid turns directly into a gas, the process called is _____
(1) Condensation (2) Sublimation
(3) Evaporation (4) Melting

Space for rough work

ISGCIISGCIISGCIISGCIISGCI

- [SGCC]**

74. The characteristic property of a solution is_____
- (1) A solution is always a solid. (2) A solution is always a gas.
(3) A solution has a uniform composition throughout.
(4) A solution can never be transparent.
75. The maximum amount of solute that can dissolve in a particular amount of solvent at a given temperature is called _____
- (1) Saturated solution (2) Solubility
(3) Unsaturated solution (4) None of these

Paper Ends

Dear Parent,

We deem it our privilege that you have chosen our **INSTITUTE** for your child's career. You are requested to note that the results of the successful candidates will be communicated to you on **7th** of this month.


(Y. Subrahmanya Sarma)

Space for rough work