

SRI SRI ACADEMY

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IIT Ramaiah Entrance Test Papers - SAT - 2018

Time : 3 Hrs.

Marks : 360

Each question has 4 choices (1), (2), (3) and (4), out of which ONE or MORE THAN ONE CORRECT.

For correct answer +4 marks awarded. No negative marks.

- In a circle of radius 2018 having centre at O, OPQR is a rectangle with Q on the circumference of the circle. P, R points inside the circle such that PQ = 504. Then PR =
 1) 2018 2) 504 3) 252 4) $\sqrt{1008}$
- The cost of a jug and a glass is Rs. 110. If the cost of the jug is Rs. 100 more than that of the glass then the cost of the glass in rupees is
 1) 10 2) 8 3) 9 4) 5
- If $y = ax^2 + bx + c$, $a \neq 0$, then $y = a\left(x + \frac{b}{2a}\right)^2 + \frac{4ac - b^2}{4a}$
 1) If a is positive then minimum value of y is $(4ac - b^2)/4a$
 2) If a is positive then maximum value of y is $(4ac - b^2)/4a$
 3) If a is negative then minimum value of y is $(4ac - b^2)/4a$
 4) If a is negative then maximum value of y is $(4ac - b^2)/4a$
- In a quadrilateral ABCD, p, q are the lengths of the perpendiculars drawn from the vertices B and D onto the diagonal AC. If AC = r, then the area of the quadrilateral ABCD is
 1) pqr 2) pqr/2 3) (p+q)r 4) (p+q)r/2
- Two circles having centers at $A(x_1, y_1)$, $B(x_2, y_2)$ having radii 5,3 respectively are touching each other at a point $P(x_3, y_3)$. Then $\left| \sum (x_1 y_2 - x_2 y_1) \right| =$
 1) 5 2) 0 3) 3 4) 15
- A factor of $\sum a^2 b + \sum ab^2 + 3abc$ is (a, b, c are real numbers)
 1) $\sum a^2$ 2) $\sum a$ 3) $\sum ab$ 4) $\sum ab^2$
- D, E, F are the mid points of the sides BC, CA and AB of a triangle ABC.
 1) DE // AB 2) EF = (1/2) BC
 3) Area of triangle DEF = (1/3) (Area of triangle ABC)
 4) Area of triangle DEF = (1/4) (Area of triangle ABC)
- Statement 1** : Given any two real numbers p, q there always exist two real numbers a and b such that $a + b = p$ and $ab = q$.
Statement 2 : There exist two real numbers a, b such that $a + b = 3$ and $ab = -400$.
 1) Statement 1 is true 2) Statement 1 is false
 3) Statement 2 is true 4) Statement 2 is false
- $\sqrt{x-a} + \sqrt{x-5} = 0$ then a is a solution of

- 1) $x^2 - 6x + 5 = 0$ 2) $x^2 - 7x + 10 = 0$ 3) $x^2 - x + 1 > 0$ 4) $x^2 + x + 1 > 0$
10. In a triangle ABC, D, E are points on the line segments AB and AC respectively. DE is parallel to BC. If $(AB / AC) = 6/7$ and $(AD / DB) = 3/2$ then $AC / AE =$
 1) $3/7$ 2) $3/2$ 3) $7/6$ 4) $5/3$
11. The number of integral solutions of the equation $\left[\frac{k}{1} \right] + \left[\frac{k}{2} \right] + \left[\frac{k}{3} \right] = 100$, where $[x]$ is the greatest integer less than or equal to x , is
 1) 0 2) 55 3) 1 4) 4
12. If $x > 2$ then the number of values of x satisfying $\sqrt{|x-2|} = \sqrt{|x-2|}$ is
 1) 0 2) less than 3000 3) 2018 4) not finite
13. In a triangle ABC, D is a point on the side BC such that AD is the internal angle bisector of the angle A. The lengths of the sides AB, BC, CA are 4, 6, 8 respectively. Then the area of triangle ACD is
 1) $2\sqrt{15}$ 2) $\sqrt{15}$ 3) $3\sqrt{15}$ 4) 2
14. If a, b are two real numbers such that $a + 2b^{1/3} = 5$, $a^3 + 8b = 305$ then
 1) $ab^{1/3} = -6$ 2) $ab^{1/3} = 6$ 3) $a^3b = -216$ 4) $2ab^{1/3} = 3$
15. The solution set of $(3x)^{\log 3} = (5x)^{\log 5}$ is
 1) $\{1, 3, 5, 15\}$ 2) $\{1, 15\}$ 3) $\{1/15\}$ 4) $\{3, 5\}$
16. In triangle ABC, right angled at A, AD is the altitude on to the side BC. If $AD = 6$ and $BD = 9$ then $CD =$
 1) 6 2) 9 3) 4 4) $3/2$
17. $P(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0 = 0$ is a polynomial equation. $P(0)$ is a root of the equation $P(x) = 0$. Then
 1) $P(0) = 0$ 2) $P(a_0) = 0$ 3) $P(P(0)) = 0$ 4) a_0 is a root of $P(x) = 0$
18. **Statement 1** : A function is possible from a set having 100 elements to a set having 2 elements.
Statement 2 : A, B are two sets having 3 and 5 elements respectively. Number of functions from A to B such that the range of f is equal to B is 0.
 1) Statement 1 is true 2) Statement 1 is false
 3) Statement 2 is true 4) Statement 2 is false
19. In a triangle ABC, AD is the altitude onto the side BC. If angle B is acute then $AC^2 =$
 1) $AB^2 + BC^2 + 2BC \cdot BD$ 2) $AB^2 + BC^2 - 2BC \cdot BD$
 3) $AB^2 + BC^2 + BC \cdot BD$ 4) $AB^2 + BC^2$
20. $x^4 + a_3 x^3 + a_2 x^2 + a_1 x + a_0 = (x-1)(x-2)(x-3)(x-4)$ then
 1) $a_3 = -10$ 2) $a_2 = 35$ 3) $a_1 = -50$ 4) $a_0 = 24$
21. If $\sum_{r=2}^{100} \frac{1}{1+2+3+\dots+r} = \frac{x}{y}$, where x, y are positive integers, GCD of x, y is 1, then $x + y =$
 1) 200 2) 99 3) 101 4) 111
22. ABCD is a cyclic quadrilateral inscribed in a circle of radius 5. E is a point on the arc ADC. If angle AEC is 20° then
 1) angle ABC is 160° 2) angle ADC is 20°
 3) angle ABC is 100° 4) angle ADC is 100°
23. Given $\sin(A+B) = \sin A \cos B + \cos A \sin B$, $\sin 75^\circ =$

- 1) $\frac{2}{\sqrt{3}}$ 2) $\frac{\sqrt{3}+1}{2\sqrt{2}}$ 3) $\frac{\sqrt{3}+1}{\sqrt{2}}$ 4) $\frac{\sqrt{3}-1}{\sqrt{2}}$
24. Three of the vertices of a parallelogram are (2, -7), (2, 0) and (1, 8) if the fourth vertex is
 1) (1, 1) 2) (1, 15) 3) (3, -15) 4) (7, -8)
25. In a rhombus lengths of the diagonals are 12 and 24. A circle C is inscribed in it. Then
 1) radius of C is $\frac{12}{\sqrt{5}}$ 2) radius of C is $\frac{24}{\sqrt{5}}$
 3) area of the square inscribed in C is $12\sqrt{\frac{2}{5}}$
 4) area of the square inscribed in C is $6\sqrt{\frac{2}{5}}$
26. $ax^2+bx+c=0$ is a quadratic equation, a,b,c are rational numbers. $\Delta = b^2 - 4ac$.
 1) Roots of the equation are always real
 2) If $\Delta = k^2, k$ is rational, then roots are rational
 3) If $\Delta \neq k^2, k$ is rational, then the roots are rational conjugates
 4) Roots of the equation are always rational
27. **Statement 1** : If set A has m elements and set B has n elements then $A \times B$ has mn elements.
Statement 2 : If A has 5 elements and B has 6 elements then the number of one-one functions from A to B is 6.
 1) Statement 1 is true 2) Statement 1 is false
 3) Statement 2 is true 4) Statement 2 is false
28. **Statement 1** : If a chord is drawn through the point of contact of a tangent to a circle, then the angles which this chord makes with the given tangent are equal respectively to the angles formed in the corresponding alternate segments.
Statement 2 : If a line is drawn through an end point of a chord of a circle so that the angle formed with the chord is equal to the angle subtended by the chord in the alternate segment, then the line is a tangent to the circle.
 1) Statement 1 is true 2) Statement 1 is false
 3) Statement 2 is true 4) Statement 2 is false
29. $P(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0 = 0$ is a polynomial equation, a_0, a_1, \dots, a_n are integers. If α is an integer and $P(\alpha) = 0$ then
 1) α divides a_0 2) $a_0 = k\alpha, k$ is an integer
 3) a_0 divides α 4) α divides a_n
30. Number of values of x such that $|x| + \sqrt{x} + [x] = x$, where $[x]$ denotes the greatest integer less than or equal to x, is
 1) 1 2) 0 3) more than 3 4) not finite
31. C_1 and C_2 are two circles such that C_1 lies inside C_2 . AB is a chord of circle C_2 touching C_1 at P.
 1) $AP = PB$ 2) $AP = (1/2)(AB)$
 3) $AP = PB$ if C_1 and C_2 are concentric 4) $AP = PB$ if C_1 and C_2 touch internally
32. **Statement 1** : Number of factors of 2018 is 2.
Statement 2 : Sum of the squares of the factors of 2018 is 1018085.
 1) Statement 1 is true 2) Statement 1 is false
 3) Statement 2 is true 4) Statement 2 is false

33. $\alpha, \beta, \gamma, \delta$ are roots of the polynomial equation $P(x) = a_4x^4 + a_3x^3 + a_2x^2 + a_1x + a_0 = 0$. Then

- 1) $\Sigma\alpha = a_3$ 2) $\Sigma\alpha = \frac{a_3}{a_4}$ 3) $\Sigma\alpha\beta = \frac{a_2}{a_4}$ 4) $\alpha\beta\gamma\delta = \frac{a_0}{a_4}$

34. ABCD is a rectangle region. P is a point on the segment BC. PQRC is also a rectangle region such that A, Q lie on the opposite sides of the line BC. AD = 15, DR = 18. The perimeter of the region ABPQRDA is

- 1) 66 2) 33 3) 270 4) cannot be determined

35. If x, y are real numbers such that $x^2 + x + 8 = 6x^{2/3}y^{1/3}$, $x^{2/3} + y^{1/3} > -2$ then

- 1) $x^{2/3} = 2$ 2) $y = 8$ 3) $y = 2\sqrt{2}$ 4) $x = 2\sqrt{2}$

36. C_1, C_2, C_3, \dots are in A.P. $C_1 = 8, C_2 = 10, C_3 = 12$. If $b_1 = 6$ and b_n be determined by $b_n = b_{n-1} + C_n$ then

- 1) $b_4 = 42$ 2) $b_7 = 96$ 3) $b_5 = 58$ 4) $b_6 = 76$

37. ABCD is a rectangle having area 8051. Its side lengths are integers. Then minimum perimeter possible for such rectangle is

- 1) 8051 2) 16104 3) 180 4) 360

38. For the function $f(x) = \sqrt{x^2 - 3x + 2} + \sqrt{3x - x^2 - 2}$

- 1) domain is $[1, 2]$ 2) domain is $\{1, 2\}$ 3) range is $\{0\}$ 4) Range is $[0, \infty)$

39. If $A = (\cos x + \sin x)^2 + (\cos x - \sin x)^2$, $B = 2(\cos^6 x + \sin^6 x) - 3(\cos^4 x + \sin^4 x) + 1$ then

- 1) $A = B$ 2) $A^2 + B = 4$
3) $A^2 - B^2 = 4$ 4) $(1 + 2A - 5A^2 + 6A^3)(B^2 - 3B) = 0$

40. **Statement 1** : If a trapezium is a cyclic quadrilateral, its non parallel sides are equal.

Statement 2 : If a quadrilateral is cyclic then it is a trapezium.

- 1) Statement 1 is true 2) Statement 1 is false
3) Statement 2 is true 4) Statement 2 is false

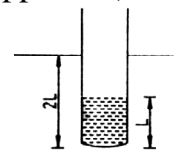
41. 125 identical spherical drops merge to form one large spherical drop. Ratio of the surface area of the large drop to any one of the individual drops is

- 1) 50 2) 25 3) 16 4) 8

42. A solid cube of side 6cm and density 2 g cm⁻³ is floating in a liquid of density 3 g cm⁻³. Volume of the cube seen above the liquid surface is

- 1) 18 cm³ 2) 36 cm³ 3) 72 cm³ 4) 144 cm³

43. A tube of negligible mass and uniform cross section filled with a liquid of mass 20g is floating in water as shown. When a lead shot is dropped in to the tube, the length of the submerged portion increases by L. The buoyant force on the tube after the lead shot is dropped is (Assume acceleration due to gravity = 10 ms⁻²).

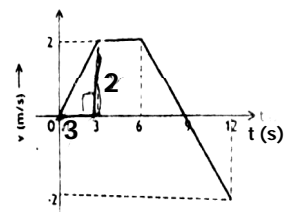


- 1) 0.1 N 2) 0.2 N 3) 0.3 N 4) 0.4 N

44. A particle moving along a straight line covers 60% of the distance at v. If the speed averaged for the entire distance is 5v/4, then the speed with which the particle travelled for the remaining distance is

- 1) v 2) 2v 3) 3v 4) 5v

45. Figure shows velocity time graph for a particle in motion. Displacement made by the particle is 12s is

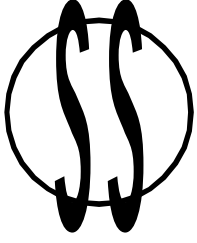


- 1) 9 m 2) 15 m 3) 12 m 4) 18 m

61. A long straight vertical conductor is carrying some current. Magnetic field lines in the neighbourhood of the conductor are
- 1) straight lines parallel to the conductor
 - 2) straight lines perpendicular to the conductor
 - 3) concentric circles in horizontal plane
 - 4) concentric circles in vertical plane
62. A charged ion of mass 'm' and charge 'q' is moving in circular path of radius r in a plane at right angles to a magnetic field of strength 'B'. Frequency of revolution of the particles is
- 1) $\frac{qB}{2\pi m}$
 - 2) $\frac{2\pi m}{qB}$
 - 3) $\frac{2qB}{\pi m}$
 - 4) $\frac{\pi m}{2qB}$
63. Nucleus A decays into nucleus C in a two-step process. $A \rightarrow B + {}^4_2\text{He}$ and $B \rightarrow C + 2e^-$. Then
- 1) A and C are isotopes
 - 2) A and C are isobars
 - 3) A and B are isotopes
 - 4) A and B are isobars
64. In a nuclear reactor 94 g of uranium (U^{235}) undergoes fission every 160 minutes. Number of reactions occurring every minute is (Avogadro number is 6×10^{23} per mole)
- 1) 1.5×10^{21}
 - 2) 1.5×10^{22}
 - 3) 1.5×10^{20}
 - 4) 1.5×10^{19}
65. In the previous question, if the energy released from the fission of one U^{235} nucleus is 200 MeV, assuming 100% efficiency the power output of the reactor is
- 1) 200 MW
 - 2) 300 MW
 - 3) 400 MW
 - 4) 800 MW
66. The electronic configuration with the highest ionization enthalpy is
- 1) $[\text{Ne}]3s^23p^1$
 - 2) $[\text{Ne}]3s^23p^2$
 - 3) $[\text{Ne}]3s^23p^3$
 - 4) $[\text{Ne}]3d^{10}4s^24p^3$
67. For the following reactions ZnO respectively acting as a / an
- i) $\text{ZnO} + \text{Na}_2\text{O} \rightarrow \text{Na}_2\text{ZnO}_2$
 - ii) $\text{ZnO} + \text{CO}_2 \rightarrow \text{ZnCO}_3$
- 1) acid and acid
 - 2) acid and base
 - 3) base and acid
 - 4) base and base
68. The following reaction occurs in the Blast Furnace where iron ore is reduced to iron metal
- $$\text{Fe}_2\text{O}_3(\text{s}) + 3\text{CO}(\text{g}) \rightleftharpoons 2\text{Fe}(\text{l}) + 3\text{CO}_2(\text{g})$$
- Using the LeChatelier's principle, predict which of the following will disturb the equilibrium?
- 1) removal of CO
 - 2) removal of CO_2
 - 3) addition of CO_2
 - 4) addition of Fe_2O_3
69. The group (s) in which all are not having triangular planar structures is / are
- 1) $\text{BF}_3, \text{NF}_3, \text{CO}_3^{2-}$
 - 2) $\text{CO}_3^{2-}, \text{NO}_3^-, \text{SO}_3$
 - 3) $\text{NH}_3, \text{SO}_3, \text{CO}_3^{2-}$
 - 4) $\text{NCl}_3, \text{BCl}_3, \text{SO}_3$
70. Assuming ideal behaviour the ratio of density of ammonia to that of hydrogen chloride at same temperature and pressure is ($\text{Cl}=35.5$ amu)
- 1) 0.64
 - 2) 1.64
 - 3) 1.46
 - 4) 0.46
71. When XO_2 is fused with an alkali metal hydroxide in the presence of an oxidising agent such as KNO_3 , a dark green product is formed which disproportionate in acid solution to afford a dark purple solution. X is
- 1) Ti
 - 2) Cr
 - 3) V
 - 4) Mn
72. A group 13 element X reacts with chlorine gas to produce compound XCl_3 . XCl_3 is electron deficient and easily reacts with NH_3 to form $\text{Cl}_3\text{X} \leftarrow \text{NH}_3$ adduct: However, XCl_3 does not undergo dimerisation. X is _____
- 1) Ga
 - 2) Al
 - 3) In
 - 4) B
73. In which of the following conversions involves change in both shape and hybridisation?
- 1) $\text{BF}_3 \rightarrow \text{BF}_4^-$
 - 2) $\text{H}_2\text{O} \rightarrow \text{H}_3\text{O}^+$
 - 3) $\text{CH}_4 \rightarrow \text{C}_2\text{H}_6$
 - 4) $\text{NH}_3 \rightarrow \text{NH}_4^+$
74. 1g of a carbonate (M_2CO_3) on treatment with excess HCl produces 0.01186 moles of CO_2 . The molar mass of M_2CO_3 in g. mol^{-1} is
- 1) 118.6
 - 2) 11.86
 - 3) 1186
 - 4) 84.3
75. Which of the following salts is / are the basic in aq. solution
- 1) FeCl_3
 - 2) $\text{Pb}(\text{NO}_3)_2$
 - 3) Na_2CO_3
 - 4) CH_3COOK
76. Metal M is treated with NaOH, a white gelatinous precipitate X is formed. X is soluble in excess of NaOH solution. X when heated strongly gives an oxide, which is also one of the product of aluminothermite process. The metal M is
- 1) Fe
 - 2) Al
 - 3) Zn
 - 4) Ca

77. The compound (s) that produce nitrogen gas by thermal decomposition is / are
 1) NH_4NO_3 2) $(\text{NH}_4)_2\text{SO}_4$ 3) $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ 4) NH_4NO_2
78. Which of the following compounds contain(s) no covalent bond(s)
 $\text{KCl}, \text{PH}_3, \text{O}_2, \text{B}_2\text{H}_6, \text{H}_2\text{SO}_4$.
 1) KCl 2) $\text{KCl}; \text{B}_2\text{H}_6$ 3) $\text{KCl}; \text{B}_2\text{H}_6; \text{PH}_3$ 4) $\text{KCl}; \text{H}_2\text{SO}_4$
79. In KO_2 , the nature of oxygen species and oxidation state of oxygen atom are respectively
 1) superoxide, and $-\frac{1}{2}$ 2) peroxide and $-\frac{1}{2}$
 3) superoxide and -1 4) oxide and -2
80. At a certain temperature in a 5L vessel, 2 moles of CO and 3 moles of Cl_2 gas were allowed to reach equilibrium according to the reaction $\text{CO} + \text{Cl}_2 \rightleftharpoons \text{COCl}_2$
 At equilibrium of one mole of CO is present then equilibrium constant K_c for the reaction is
 1) 2.5 2) 3 3) 4 4) 2
81. Correct order of electronic affinity is
 1) $\text{F} > \text{Cl} > \text{O}$ 2) $\text{Cl} > \text{F} > \text{O}$ 3) $\text{O} > \text{F} > \text{Cl}$ 4) $\text{F} > \text{O} > \text{Cl}$
82. The decreasing order of bond angles in $\text{BF}_3, \text{NH}_3, \text{H}_2\text{O}, \text{I}_3^-$ is
 1) $\text{BF}_3 > \text{NH}_3 > \text{H}_2\text{O} > \text{I}_3^-$ 2) $\text{BF}_3 > \text{I}_3^- > \text{H}_2\text{O} > \text{NH}_3$
 3) $\text{I}_3^- > \text{BF}_3 > \text{NH}_3 > \text{H}_2\text{O}$ 4) $\text{I}_3^- > \text{NH}_3 > \text{H}_2\text{O} > \text{BF}_3$
83. A white sodium salt dissolves readily in water to give a solution neutral to litmus. A silver nitrate solution is added to the above solution white ppt is formed which does not dissolve in dil. nitric acid. The anion is
 1) SO_4^{2-} 2) CO_3^{2-} 3) Cl^- 4) S^{2-}
84. In graphite and diamond the percentage of P-character of the hybrid orbital's in hybridisation are respectively
 1) 33 and 25 2) 67 and 75 3) 33 and 75 4) 50 and 75
85. When a electric current is passed through acidified water, 112 ml. of H_2 gas at NTP was collected at cathode in 965 seconds. The current passed in amperes is
 1) 0.1 2) 2.0 3) 0.5 4) 1.0
86. Which of the following correct for P_4 molecular structure
 1) total no. of σ -bonds in P_4 molecule is 6
 2) the bond angles in P_4 -molecule is 60°
 3) each P-atom linked to 4-other P-atoms
 4) each P-atom carry one lone pair of electron
87. A solution containing 1 mole of NaCl and 1.5 mole of H_2SO_4 will be neutralized by
 1) 1.5 mole of NaOH 2) 3 mole of NaOH
 3) 1.5 mole of $\text{Ba}(\text{OH})_2$ 4) 5 mole of NaOH
88. Which of the following statements is / are true about the quantum numbers n,l,m and s?
 1) l gives an idea of the shape of the orbital
 2) n gives an idea of the size of the orbital
 3) m gives an idea of the structure of orbital
 4) s gives an idea of spinning nature of electron
89. In which of the following molecules the octet rule is not violated?
 1) Cl_2O 2) BF_3 3) SF_6 4) NH_4^+
90. Which of the following statements are not correct for alkanes
 1) all C-H and C-C bonds have a length of 1.112A° and 1.54A° respectively.
 2) all bond angles are tetrahedral having a value of $109^\circ 28'$
 3) the C-C chain is linear and not Zig-Zag
 4) all alkanes exhibit isomerism.

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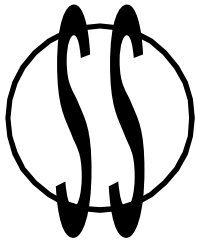


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