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| 15. | Which one of the following is an example of primary storage? a. Random Access Memory c. Hard Disk | b. USB d. Floppy Disk |
| 16. | The change in the focal length of the eye is called____ a. Modification | b. distinct vision c. accommodation d. induction |
| 17. | In damping the amplitude of the vibrating body decreases due to _____. a. Restoring force | b. Resistive force c. Weight of the body d. Normal Force |
| 18. | A positive and negative charges are initially 4 cm apart. When they are moved closer together so that they are now 1 cm apart, the force between them is _____. a. 4 times smaller than before c. 16 times smaller than before | b. 4 times larger than before d. 16 times greater than before |
| 19. | As compare to thick wires, thin wires have _____. a. More resistance | b. Least resistance c. Same resistance d. No resistance |
| 20. | Which of the following decolorize bromine water? a. C ₃ H ₆ | b. C ₂ H ₆ O c. CH ₄ d. C ₄ H ₁₀ |
| 21. | In Newton's third law of motion the action and reaction pair does not neutralize each other because they _____. a. Act on same body c. Act on third body | b. Act on different bodies d. Produces friction |
| 22. | How many grams are there in two moles of oxygen gas? a. 16 grams | b. 32 grams c. 44 grams d. 64 grams |
| 23. | $ x =$ _____, if $x > 0$. a. x | b. 0 c. $-x$ d. -1 |
| 24. | Which part of a D.C motor reverses the direction of current through the coil every half cycle? a. The armature | b. The commutator c. The brushes d. The slip rings |
| 25. | The Euler constant "e" is _____. a. rational | b. irrational c. polynomial d. expression |
| 26. | The refractive index of a crown glass is _____. a. 1.333 | b. 1.46 c. 1.52 d. 2.417 |
| 27. | What will be the value of γ for a solid for which α has a value of $2 \times 10^{-3} \text{ k}^{-1}$? a. $2 \times 10^{-3} \text{ k}^{-1}$ | b. $2 \times 10^{-6} \text{ k}^{-1}$ c. $6 \times 10^{-6} \text{ k}^{-1}$ d. $6 \times 10^{-3} \text{ k}^{-1}$ |
| 28. | In oligosaccharides, monosaccharides are connected by..... a. Glucose bond/linkage c. Covalent bond/linkage | b. Saccharide bond / linkage d. Glycosidic bond/linkage |
| 29. | Which prefix has the smallest value? a. nano | b. pico c. femto d. atto |
| 30. | Two charged spheres are separated by 1 mm. Which of the following pair of charges would produce the greatest attractive force? a. +1q and +4q | b. +2q and -4q c. +2q and -2q d. -2q and -2q |
| 31. | When we heat the metal at high temperature they emit _____. a. Protons | b. Electrons c. Neutrons d. Neutrino |
| 32. | For turn ratio of transformer to be 5 the relation will be _____. a. $N_p = 5 N_s$ | b. $N_s = \frac{N_p}{5}$ c. $N_s = 5 N_p$ d. $N_s = \frac{5}{N_p}$ |
| 33. | If the mass of bob of the pendulum is increased by the factor of 2, then the time period of pendulum motion will _____. a. Increase by factor of $\sqrt{2}$ c. Increase by a factor of 4 | b. Increase by a factor of 2 d. Remains Same |
| 34. | Work done by the gravitational force of earth on a satellite along a circular path is _____. a. 0 | b. >0 c. <0 d. ≥ 0 |
| 35. | Dehydration of alcohol produces a. Alkene and carbon dioxide c. Only alkene | b. Alkene and water d. Only alkyne |
| 36. | The correct formula for propyne is a. C ₃ H ₈ | b. C ₃ H ₅ c. C ₃ H ₆ d. C ₃ H ₄ |
| 37. | Bleeding from the damaged blood vessels, either outside of the body or inside of body is caused by deficiency of vitamin..... a. A | b. B (complex) c. C d. K |

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| 38. | While going upward in air, air pressure |
| | a. Increases c. Remains constant |
| | b. Decreases d. First increases then decreases |
| 39. | The simplified form of $6a:18b$ is _____. |
| | a. $a:3b$ b. $3a:b$ c. $3a:9b$ d. $9a:3b$ |
| 40. | Steel is an example of |
| | a. Electroplating b. Element c. compound d. Mixture |
| 41. | All gases have same number ofin there one mole. |
| | a. Atoms b. Ions c. Molecules d. Electrons |
| 42. | An element has atomic number 18. Its belongs toblock |
| | a. s b. p c. d d. f |
| 43. | Neon has same electronic configuration with all these except |
| | a. O^{-2} b. Na^{+1} c. Mg^{+2} d. Ca^{+2} |
| 44. | The only non-conductor element in liquid form is..... |
| | a. Hg b. Au c. Br d. S |
| 45. | In reaction $MnO_2 + 4HCl \rightarrow MnCl_2 + Cl_2 + 2H_2O$ which one is reduced? |
| | a. Mn b. Cl c. H d. O |
| 46. | Which one is not an example of amorphous solid |
| | a. wood b. Glass c. plastic d. metal |
| 47. |is an ionic compound. |
| | a. CO_2 b. H_2O c. CH_4 d. CaO |
| 48. | If $z_1 = 2 - i$ and $z_2 = 3 + i$ then $z_1 z_2 =$ _____. |
| | a. $-7 - i$ b. $-7 + i$ c. $7 + i$ d. $7 - i$ |
| 49. | Petroleum is refined by fractional distillation instead of simple distillation because |
| | a. Petroleum is organic compounds b. Petroleum has very high boiling point c. Simple distillation is used only for inorganic compound d. The petroleum compounds have very close boiling points |
| 50. | Which pollutant has no natural sources? |
| | a. NO_x b. SO_x c. Particulate matter d. CFCs |
| 51. | During equilibrium which condition may not possible |
| | a. More products less reactants b. More reactants less products c. Amount of products will always be equal to amount of reactants at equilibrium state d. Formation of reactants and products is always same at equilibrium state |
| 52. | Which of the following is a strong acid |
| | a. HCl (pH= 3) b. Lemon juice (pH=2.2) c. Acetic acid (pH=5) d. Grapes (pH=4.5) |
| 53. | Catenation is the link of |
| | a. Carbon to carbon atoms b. Oxygen to carbon atoms c. Nitrogen to carbon atoms d. Hydrogen to carbon atoms |
| 54. | It is our problem, not-----. |
| | a. There b. Their c. There's d. Theirs |
| 55. | If Marwan----- earlier, he would always be on time. |
| | a. Had get up b. Had got up c. Gets up d. Got up |
| 56. | If $x = \sqrt{3} - \sqrt{2}$, then $x^2 + \frac{1}{x^2} =$ _____. |
| | a. -10 b. 10 c. 20 d. -20 |
| 57. | At a distance of three Earth's radius above the Earth's surface the value of "g" becomes _____ of its value on earth's surface. |
| | a. 4 times b. $\frac{1}{4}$ times c. 16 times d. $\frac{1}{16}$ times |
| 58. | If velocity of a body is reduced to half, then its kinetic energy will _____. |
| | a. Reduce by factor of $\frac{1}{4}$ b. Reduce by factor of $\frac{1}{2}$ c. Reduce by factor of 2 d. Reduce by factor of 4 |
| 59. | The sum of interior angles of a quadrilateral is _____. |
| | a. 90° b. 180° c. 360° d. 460° |
| 60. | The SI unit of Young's Modulus is same as that of _____. |
| | a. Elasticity b. Density c. Stress d. Strain |

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| 61. | Two balls of masses 100 g and 50 g respectively are dropped freely from same height. Which of these balls will reach the ground first? a. Both at same rate b. 100g ball c. 50g ball d. Both will escape the gravity |
| 62. | $a^3 - b^3, a^2 - b^2, a^2 + ab + b^2$ and x are in proportion . Then $x =$ _____. a. $-a - b$ b. $a - b$ c. $a + b$ d. $\pm(a - b)$ |
| 63. | The set $\{x/x \in U \text{ and } x \notin A\}$ is _____. a. U' b. U c. A d. A' |
| 64. | Intensity level of sound is equal to _____. a. $K \log \frac{I}{I_0}$ b. $K \log \frac{I_0}{I}$ c. $2K \log \frac{I}{I_0}$ d. $K \log \frac{2I}{I_0}$ |
| 65. | In expression $\sqrt[n]{a^m}$ if $m = n$ then $\sqrt[n]{a^m} =$ _____ a. $\frac{1}{a}$ b. 1 c. a d. -1 |
| 66. | The lines $x - y = 5$ and $2x + y = 1$, are _____. a. intersecting b. parallel c. inclined d. both a and b |
| 67. | A trapezoid is a quadrilateral with exactly _____ pair of parallel sides. a. 3 b. 2 c. 1 d. no sides parallel |
| 68. | When the magnitude of K_c is very small it shows that a. Reaction mixture contains most of the reactants b. Reaction mixture contains most of the products c. Reaction mixture contains almost equal reactants and products d. Reaction is completed |
| 69. | In parallelogram the consecutive angles are _____. a. Complementary b. supplementary c. Acute d. alternate |
| 70. | 3, 4, 5 are the sides of a _____ triangle. a. Acute b. obtuse c. right d. scalene |
| 71. | A and B are two matrices then $A_{m \times p} \times B_{p \times n} =$ _____. a. $AB_{n \times m}$ b. $AB_{m \times n}$ c. $AB_{p \times p}$ d. $AB_{p \times n}$ |
| 72. | A scalar matrix of order n in which each diagonal element is unity is called _____ matrix. a. Identity b. rectangular c. row d. column |
| 73. | Which of the following does not act as a lewis acid? a. $AlCl_3$ b. BF_3 c. CCl_4 d. Mg^{+2} |
| 74. | Which of the following is not an organic compound? a. Urea b. Ammonia c. Hexane d. Methanol |
| 75. | Water volume is minimum atdegree centigrade a. 4 b. 0 c. -4 d. Below zero |
| 76. | Hardness of water is achange a. Chemical b. Physical c. Biochemical d. Biological |
| 77. | Which one will undergo substitution reaction a. C_2H_4 b. C_3H_4 c. C_4H_6 d. C_2H_6 |
| 78. | $\{a \in A / (a, b) \in R\} =$ _____. a. Dom A b. Range A c. Dom R d. Range R |
| 79. | If $2x=6$ and $x + y=2$ then the ordered pair formed is _____. a. (3,1) b.(3, -1) c. (-3, 1) d. (-3, -1) |
| 80. | A _____ is a segment whose end points are on the circle. a. Radius b. chord c. diameters d. arc |
| 81. | The sum of the complex cube roots of unity is _____. a. 0 b. 1 c. -1 d. ω |
| 82. | The market is nearer to them than-----. a. We b. Ourselves c. Ourselves d. Us |
| 83. | The harmonic mean of 5,6,8,9 and 10 is _____. a. 8.568 b. 3.69 c. 7.19 d. 7.892 |
| 84. | Stanzaic structure of the poem "Dreams" is -----. a. Quatrain b. Quintain c. Sextain d. Dizain |
| 85. | Which of the following is a heterocyclic compounds a. Benzene b. Cyclohexane c. Cyclopentane d. Thiophene |

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| 86. | Which of the following is reddish brown gas? a. CO ₂ b. NO ₂ c. O ₂ d. O ₃ |
| 87. | Matte is the mixture of a. Cu ₂ S and FeS b. Cu ₂ O and FeS c. CuS and FeS d. Cu ₂ S and Fe ₂ S |
| 88. | The word rational comes from the word a. proportion b. variation c. ratio d. irrational |
| 89. | If 1 and -2 are the roots of $x^3 - mx^2 + nx + 12$, then the values of "m" and "n" are a. 5,8 b. 5, -8 c. -5, -8 d. -5, 8 |
| 90. | If $x^3 + 1^3 = 0$, then the cube roots are a. 1, ω , ω^2 b. -1, ω , ω^2 c. 1, ω , $-\omega^2$ d. -1, $-\omega$, $-\omega^2$ |
| 91. | The new information about the dengue virus caused panic in government and public-----. a. Like b. Likely c. Dislike d. Alike |
| 92. | Let the door be quickly. a. Open b. Opening c. Opened d. Close |
| 93. | He is known for his intelligence. The word intelligence isnoun? a. Countable b. Proper c. Abstract d. Concrete |
| 94. | A/An is the union of two non-collinear rays with the same end points. a. Rays b. line c. diameter d. angle |
| 95. | An equation in which the variable appears in one or more radicands is called equation. a. Radical b. exponential c. quadratic d. linear |
| 96. | In quadratic standard form, the term "bx" is a. Real b. imaginary c. quadratic d. linear |
| 97. | What does the idiom "break the ice" mean? a. To make the first move b. To cause trouble c. To break a physical object d. To hurry up |
| 98. | Maryam and Manahil went shopping, but-----couldn't find anythin-----liked. a. They, them b. They, those c. Them, they d. They, they |
| 99. | The solutions for $4y + \frac{4}{y} = 10$ when $y = 2^x$ are a. {1} b. {-1,1} c. {0} d. {-1} |
| 100. | The sexagesimal form of 38.39° is a. 38° 24'' 15' b. 38° 23' 24'' c. 38° 24' 0'' d. 38° 23' 15'' |