THE QUAID E AZAM GROUP OF SCHOOLS AND COLLEGES KP

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S. No

Computer Science

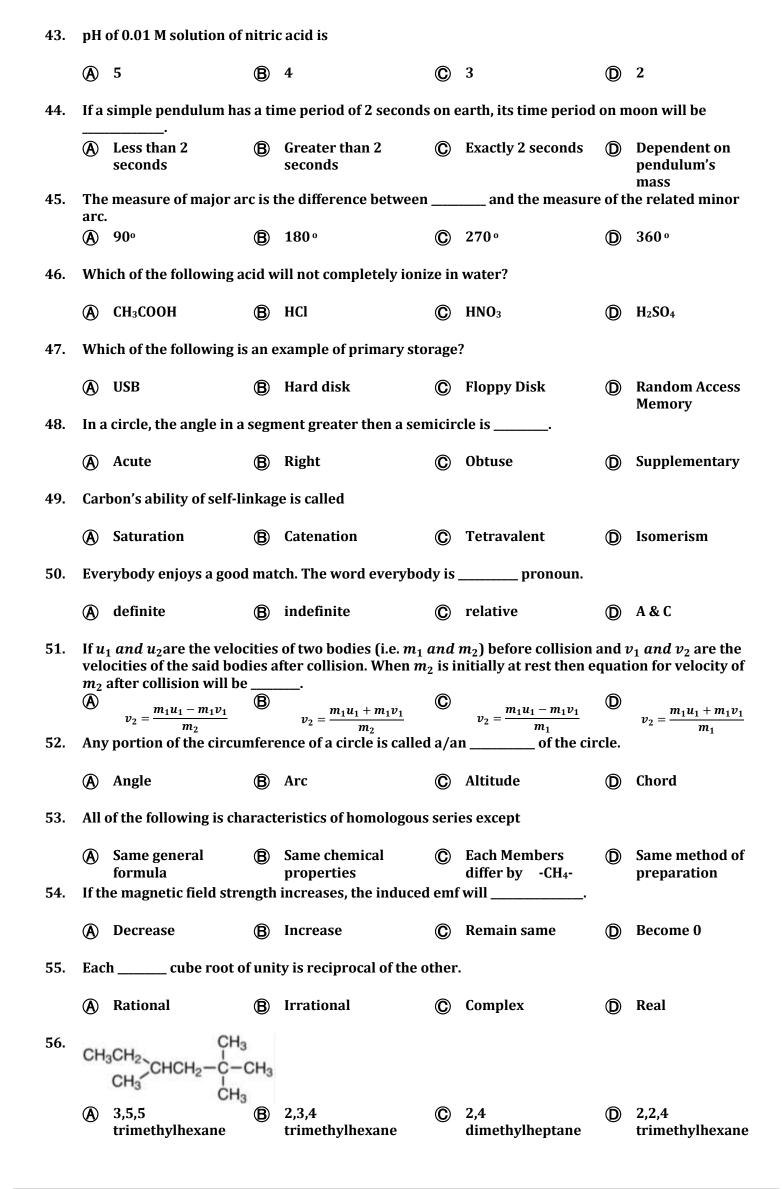
| 1. | If ΔB (difference between two sound levels) equals 0, what can be inferred about I_2 and I_1 ? | | | | | I ₂ and I ₁ ? | | |
|-----|--|---|--------|--|----------|---|-------------|--|
| | (A) | $I_2 = I_1$ | ₿ | $I_2=2I_1$ | © | $I_1=2I_2$ | (D) | $I_2 = \frac{I_1}{2}$ |
| 2. | A | is a compariso | on of | two quantities of diffe | rent | kinds. | | |
| | (A) | Ratio | ₿ | Rate | © | Proportion | (D) | Variation |
| 3. | Mai | n difference betweer | ı Rib | ose and deoxyribose s | ugar | is due to | | |
| | (A) | Glycosidic linkage | ₿ | Peptide linkage | © | Number of Oxygen atoms | D | Number of Carbon atoms |
| 4. | | ich of the following p et as 1mm? | air w | vould produce the grea | test | attractive force if sep | arati | ion between them |
| | | | ₿ | -2q and -4q | © | +2q and -2q | (D) | -4q and -4q |
| 5. | A fu | ınction which is both | into | and one-one is called | | _ function. | | |
| | (A) | Bijective | ₿ | Surjective | © | Injective | (D) | Onto |
| 6. | Gre | enhouse effect is nat | urall | y occurring process, li | fe wo | on't be possible witho | ut it | because |
| | A | It Leads to formation of ozone layer | ₿ | It Results in earth surface being completely covered in water | Ŭ | It decrease average temperature of earth | | Warms earth surface, creating habitable environment |
| 7. | the | rmal expansion is | | mal expansion for alun | | | | |
| | (A) | $8\times10^{-9}K^{-1}$ | ₿ | $8\times10^{-6}K^{-1}$ | © | $75 \times 10^{-9} K^{-1}$ | (D) | $75 \times 10^{-6} K^{-1}$ |
| 8. | The | e of deviations | of va | alues measured from t | heir . | Arithmetic mean is al | ways | s equal to zero. |
| | (A) | Sum | ₿ | Difference | © | Multiplication | (D) | Division |
| 9. | | atosphere is a layer tl temperature range ii | | | | | | |
| | (A) | -56 <i>to</i> -2 | ₿ | 15 to - 56 | © | -2 <i>to</i> -92 | (D) | -92 <i>to</i> - 56 |
| 10. | | of the extreme | weat | her, the match will be | playe | ed tomorrow. | | |
| | (A) | therefore | ₿ | regardless | © | in addition to | (D) | furthermore |
| 11. | The | e role of control rods | in a ı | nuclear reactor is to ab | sorb | excess | | |
| | (A) | Neutrons | ₿ | Alpha particles | © | Beta particles | (D) | Gamma rays |
| 12. | The | e trigonometric ident | ity (d | $cosec^2\theta - 1)sin^2\theta = $ | | • | | |
| | (A) | $\sin^2 \theta$ | ₿ | $\cos^2 \theta$ | © | Cosec² θ | (D) | $\operatorname{Sec}^2 \theta$ |
| 13. | Wh | ich compound among | g the | following can cause te | mpo | rary hardness of wato | er? | |
| | (A) | Magnesium sulphate | ₿ | Magnesium bicarbonate | © | Calcium chloride | (D) | Magnesium chloride |

| 14. | 14. Which statement accurately describes the convection in vacuum? | | | | |
|------------|--|--|---|---|--|
| | (A) Convection occurs at a slower rate | Convection is not possible | © Convection relies on electromagnetic waves | © Convection involves movement of charged particles | |
| 15. | A chord is 4cm from the | e center of a circle of radiu | is $5\sqrt{2}$ cm. the length of the | <u>-</u> | |
| | (A) $5\sqrt{34}$ | $\bigcirc 3\sqrt{34}$ | © √34 | | |
| 16. | Fresh water needed for | r human requirements is _ | of the total. | | |
| | (A) 2.14% | B 97% | © 0.2% | D 0.61% | |
| 17. | Two capacitors $5\mu F$ and | d 10 μF are connected in so | eries. Their equivalent cap | oacitance is | |
| | | \bigcirc 5 μF | © 7.5μF | \bigcirc 15 μF | |
| 18. | The part of the quadrat | tic formula underneath the | e square root sign is called | | |
| | (A) Discriminant | B Root | © Quad | Solution | |
| 19. | | | racting metal from its ores | s, purifying, alloying an | |
| | (A) Metallurgy | from metals is called B Concentration | © Electrolysis | Distillation | |
| 20. | Jhon is good M | lathematics. | | | |
| | (A) in | B at | © on | ① A & C | |
| 21. | The time independent | equation of motion for a b | ody starting from rest is | | |
| | | | | \bigcirc $V_f = at$ | |
| 22. | If a, b and c are in conti | nued proportion then "b" | is called of "a" and | l "c". | |
| | A Harmonic mean | Arithmetic mean | © Geometric mean | Reciprocal | |
| 23. | Petroleum occurs in all Petroleum in solid forn | | oend upon its composition. | | |
| | A Asphalt | B Crude oil | © Black gold | Natural gas | |
| 24. | For turn ratio of transf | ormer to be 5, te relation v | will be | | |
| | | | | | |
| 25. | _ | median and the upper qua | artile which divides the da | ta into four equal parts | |
| | are called (A) Median | Quartile | © Mode | Mean | |
| 26. | Functional group of car | rboxylic acid is | | | |
| | (A) -ОН | ® -соон | © -сно | D -co- | |
| 27. | The wave motion trans | fers energy by | | | |
| | (A) Moving particles along the wave | B Displacing the particles in the direction of wave motion | © Creating a vacuum in front of a wave | © Causing f particles to oscillate around its fixed positio | |

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| 28. | If $tan\theta = 1$ and $\theta \in i^{st}$ quartile then $cos\theta = $ | | | | | |
|-----|---|---|----------------------------------|------------------------------------|--|--|
| | $\bigcirc \hspace{-0.1cm} -\sqrt{2}$ | \bigcirc $\sqrt{2}$ | \bigcirc $-\frac{1}{\sqrt{2}}$ | | | |
| 29. | Test used for detection | of alkenes is | | | | |
| | A Fehling's test | Tollen's test | © Bayer's test | Litmus test | | |
| 30. | Marwan is superior | Akram. | | | | |
| | (A) from | B to | © of | (D) with | | |
| 31. | The instrument used for | r measuring the density of | sugar in a liquid is calle | d | | |
| | (A) Lactometer | B Barometer | © Saccharometer | Alcoholometer | | |
| 32. | is used to obta | in the angle of elevation o | f the top of an object. | | | |
| | (A) Clinometer | B Galvanometer | © Voltmeter | Seismometer | | |
| 33. | Deficiency of vitamin D | causes | | | | |
| | A Premature aging | B Scurvy | C Acne | Rickets | | |
| 34. | What would be the remainalf-life is 100 days? | aining concentration of 1 g | g of radioactive substanc | ce after 400 days if the | | |
| | $ \frac{1}{16} $ | \bigcirc $\frac{1}{8}$ | \bigcirc $\frac{1}{4}$ | | | |
| 35. | | ర ct in one point are called _ | 4 circles. | 2 | | |
| | (A) Concentric | Tangent | © Circum | Inscribed | | |
| 36. | | orium, rate of forward read of reactants and products | ction become equal to ra | te of backward reaction | | |
| | A Become constant | Remain same | © Decrease | ① Increase | | |
| 37. | The equation for magni | fication produced by comp | oound microscope is give | en by | | |
| 38. | | $\mathbf{m} = -rac{d_i}{f_e} 	imes rac{f_o}{N}$ r to a radius at its end poin | | | | |
| | | | | | | |
| | A Perpendicular | B Congruent | © Tangent | ⑤ Secant | | |
| 39. | <u>-</u> | the concentration of hydralue of $K_{\mathbb{C}}$ for the following | _ | ol.dm ⁻³ while hydrogen | | |
| | (A) 0.4 | B 0.8 | © 4 | D 8 | | |
| 40. | He is ill malari | a. | | | | |
| | (A) from | B with | © by | ① in | | |
| 41. | Efficiency of electric gen | nerator is | | | | |
| | (A) 20 % | B 55 % | © 85 % | © 98 % | | |
| | () = 0 70 | 9 73 | | | | |
| 42. | An arc whose end point | s lies on the sides of the ar _ arc of the central angle. | O | ints lies in the interior of | | |

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| 37. | when I olomum-210 un | ucig | oes a-accay, it convert | 3 11110 | · | | |
|-----|--|-------------------|-----------------------------|---------------------------|--------------------------------|------------|------------------------|
| | (A) Lead-204 | ₿ | Lead-206 | © | Lead-210 | (D) | Lead-214 |
| 58. | The function $\frac{x^2+3x+2}{x^2+2x+3}$ is_ | | . | | | | |
| | A Proper | ₿ | Improper | © | Partial | (D) | Irrational |
| 59. | Which of the following i | s mo | st reactive? | | | | |
| | (A) Ethyne | ₿ | Ethene | © | Methane | (D) | Ethane |
| 60. | A four lined stanza is ca | lled _ | | | | | |
| | (A) quatrain | ₿ | tercet | © | monostitch | (D) | octave |
| 61. | Displacing pendulum fr | om it | s equilibrium position | is an | example of | · | |
| | (A) Stable equilibrium | ₿ | Unstable equilibrium | © | Neutral equilibrium | (D) | Dynamic equilibrium |
| 62. | 31° 45′ = | ra | | | equinorium | | equilibrium |
| | (A) 0.4541 | ₿ | 0.4451 | © | 0.5541 | (D) | 0.4127 |
| 63. | Which of the following i | s also | o called simplest sugar | ? | | | |
| | A Polysaccharides | ₿ | Oligosaccharides | © | monosaccharides | (D) | Cellulose |
| 64. | What is the typical resp | onse | of a thermistor to a te | mper | ature increase? | | |
| | (A) Resistance increases | ₿ | Resistance decreases | © | Resistance remains constant | (D) | Resistance varies |
| 65. | When "C" is the largest s triangle. | side o | of the triangle and a^2 + | · b ² < | $< c^2$ then the triangle | is ca | lled |
| | A Acute | ₿ | Right | © | Obtuse | (D) | A and C |
| 66. | Peptide linkage is prese | ent in | | | | | |
| | A Carbohydrates | ₿ | Fats | © | Proteins | (D) | Nucleic acid |
| 67. | If the direction of the wi | ire ha | wing current is perper | ıdicu | lar to the magnetic fi | ield t | hen force on wire |
| | (A) Increases | ₿ | Decreases | © | Remains same | (D) | 0 |
| 68. | If n=6 and $16 \times 2^m = 4^n$ | ¹⁻⁸ th | en m = | | | | |
| | (A) -6 | ₿ | 6 | © | 8 | (D) | -8 |
| 69. | All of the following is re | lated | to free radicals excep | t | | | |
| | (A) Heterolytic fission | ₿ | Unpaired electrons | © | Highly reactive | (D) | No charge |
| 70. | The extremely tired lior this line is | ness i | n the jungle is losing p | atien | nce with her cub. The | adje | ctive phrase in |
| | (A) the extremely tired | ₿ | losing patience | © | her cub | (D) | in the jungle |
| 71. | Which of the following h | nas th | e lowest coefficient of | frict | ion? | | |
| | (A) Wood on leather | (B) | Steel on ice | © | Wood on wood | (D) | Steel on steel |

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| 72. | For $i = \sqrt{-1}$, i 3 $i(2 + 9)$ | i) = x + 6i then val | ue of x =f | · | | |
|-----|---|--|---------------------|---------------------------------|------------|----------------------|
| | (A) -15 | B 15 <i>i</i> | © | -27 | (D) | -27 <i>i</i> |
| 73. | How many grams will b | e there in 2 moles of | f CO ₂ ? | | | |
| | (A) 44g | B 88g | © | 66g | (D) | 22g |
| 74. | In DC motora | llows the direction o | of current in | the coil to reverse ev | ery h | alf cycle. |
| | A The armature | The slip rings | © | The brushes | D | The split rings |
| 75. | Find the value of Z, whe | $\log_{\frac{1}{9}}3=z?$ | | | | |
| | $\bigcirc \hspace{-0.2cm} \begin{array}{c} \frac{1}{2} \end{array}$ | $\bigcirc -\frac{1}{2}$ | © | $\frac{1}{3}$ | (D) | -3 |
| 76. | Which of the following | subshell has higher | energy? | | | |
| | (A) 3s | B 3p | © | 3d | (D) | 4s |
| 77. | The pitch of a sound is | letermined by | · | | | |
| | (A) Amplitude | Intensity | © | Frequency | (D) | Quality |
| 78. | If $b = \sqrt{3} - 2$ then the v | alue of $b + \frac{1}{b} = \underline{\hspace{1cm}}$ | · | | | |
| | (A) 4 | ⓑ −4 | © | $\sqrt{3}$ | (D) | $-\sqrt{3}$ |
| 79. | Elements in the same p | eriod will have sam | e | | | |
| | (A) Chemical properties | B Valency | © | Number of valence electrons | (D) | Number of shells |
| 80. | There aretypes of co | onditional sentences | | | | |
| | (A) 1 | B 2 | © | 3 | (D) | 4 |
| 81. | The center of mass of a | uniform rod lies | · | | | |
| | (A) At one end of the rod | At the midpoint the rod | int of © | At center of gravity of the rod | (D) | Outside the rod |
| 82. | Highest common factor | of (c+4) ² and c ² -16 i | s | | | |
| | (A) C+4 | B c-4 | © | (c+4)(c-4) | (D) | (c+4)(c+4) |
| 83. | Which of the following | is example of intram | olecular for | ces. | | |
| | (A) Covalent bond | Hydrongen be | ond © | Dipole interaction | D | London dispersion |
| 84. | The speed of light in wa | ter having index of | refraction as | 1.33 is | | forces |
| | | \bigcirc 2.2 × 10 ⁸ m/s | © | $3\times 10^6 \text{m/s}$ | (| $3 \times 10^8 m/s$ |
| 85. | The sum of two number | rs is 6 and their diffe | erence is -4. T | Then the numbers ar | e | . |
| | (A) -1, 5 | B -1, -5 | © | 1, -5 | (D) | 1, 5 |
| 86. | In dative bond, electron | is donated to | | | | |
| | (A) Donor | B Electron defice | cient © | Electron rich | (D) | Anion |

| 87. | In which direction do electric field lines point around a positive point charge? | | | | | | | |
|------|--|--------------------------------------|----------|--------------------------------------|------------|---------------------------------------|---------------|---|
| | (A) | Parallel to the charge axis | ₿ | Tangential to the charge axis | © | Radially inward | (D) | Radially outward |
| 88. | If A(-1,2) and B(3,-4) are any two points in a plane then $ AB = $ | | | | | | | |
| | (A) | $2\sqrt{12}$ | ₿ | $2\sqrt{13}$ | © | $2\sqrt{11}$ | (D) | $2\sqrt{10}$ |
| 89. | Wh | ich of the following is | kep | t constant in Charles la | W | | | |
| | (A) | Temprature | ₿ | Volume | © | Pressure | (D) | Heat |
| 90. | The | best hobby is readin | g. In | this sentence reading | has b | oeen used as | | |
| | (A) | subject | ₿ | object | © | predicate nominative | D | object of a preposition |
| 91. | | gravitational force bance of 4 m? | etwe | een two objects is 12 N | at a | distance of 2 m. What | is th | e force at a |
| | | 3 N | ₿ | 6 N | © | 12 N | (D) | 24 N |
| 92. | The | sum of measure of in | iteri | or angles of a pentagor | is e | qual to | | |
| | (A) | 180° | ₿ | 360° | © | 540° | (D) | 720 ° |
| 93. | | culate molarity of a so | oluti | on containing 12 mol o | f Na(| Cl in enough water to | mak | e 3dm³ of |
| | (A) | 12M | ₿ | 6M | © | 5M | (D) | 4M |
| 94. | The | NOR gate is equivale | nt to | · | | | | |
| 05 | (A) | AND gate with inverted at its inputs | B | OR gate with inverted at its inputs | © to of | AND gate with inverted at its outputs | D | OR gate with as inverted at its outputs |
| 95. | | - measure of a fine set | giiiei | nt joining the mid-poin | ts 01 | AB and AC of ABC | 18 3.3 | ciii. iiiiu iii <i>b</i> c= |
| | A | 4.5 cm | ₿ | 5.5cm | \odot | 6cm | (D) | 7cm |
| 96. | Oxi | dation number of sul | phur | in H ₂ SO ₄ is | | | | |
| | (A) | +6 | ₿ | +4 | © | +3 | D | +2 |
| 97. | As | compared to thick win | res, t | hin wires have | · | | | |
| | (A) | Higher resistance | ₿ | Lower resistance | © | Equal resistance | (D) | Variable resistance |
| 98. | If su | ım of the measures o | f∠A | and $\angle C$ of a parallelog | ram . | ABCD is 160° then m_z | ∠ B =_ | • |
| | (A) | 65° | ₿ | 100° | © | 120° | (D) | 200 ° |
| 99. | Wh | ich of the following is | not | alkali metal? | | | | |
| | (A) | Lithium | ₿ | Beryllium | © | Sodium | (D) | Potassium |
| 100. | Ide | ntity the correct use o | of ap | ostrophe. | | | | |
| | (A) | the Smith's are coming over. | ₿ | the Smiths' are coming over. | © | the Smiths are coming over. | D | the Smith's' are coming over. |

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