

NAT I Engineering

Sr	Ougations	Anguara Chaica
1	Questions A current of 9.65 ampere flowing for 10 minutes deposits 3.0 g of the metal which is monovalent. The atomic mass of the metal is	A. 10 B. 50 C. 30
2	6 is	D. 96.5 A. A prime integer B. An irrational number C. A rational number D. An odd integer
3	Which one is primary alcohol?	A. Buten-2-ol B. Propene 2-ol C. Butaon-al D. 2,3- Dimethy thexane-1-0l
4	The maximum number of electrons in a subshell for which L = 3 is.	A. 14 B. 10 C. 8 D. 4
5	In NWFP the phophate fertilizers are producted at.	A. D.I KHAN B. Haripur C. Nushera D. Durgai
6	Velocity of sound in a diameter as is 3000 m/sec, what is its rms velocity?	A. 400 m/sec B. 40 m/sec C. 430 m/sec D. 300 m/sec
7	Causticisation process is used for the preparation of.	A. Caustic soda B. Caustic potash C. Borate solution D. Slaked lime
8	The magnitude of a vector ca never be	A. Zero B. Negative C. Positive D. Absolute
9	At room tempeeratue formaldehyde is.	A. Gas B. Liquid C. Solid D. None of aboe
10	The relative rates of diffurion of a gas (Molecular weight = 128) as compared to oxygen is.	A. 2 times B. 1/4 C. 1/8 D. 1/2
11	Isopropyl alcohol on oxidation forms	A. Acetone B. Either C. Ethylene D. Aceldehyde
12	The kinetic theory of gases predicts that total kinetic energy of a gaseous assembly depends on	A. Pressure of gas B. Temperature of the gas C. Volume of the gas D. Pressure, temperature, and volue of the gas
13	Which one of the following elements occurs free in nature?	A. N B. P C. As D. Sb
14	Which of the following reagent cannot be sues for preparing alkyl chloride from alcohol.	A. HCL + anhyd. B. ZnCl2 C. PCl5 D. NaCl
15	If {A}≠ 0 then A is called	A. Nilpotent matrix B. Singular matrix

		D. Diagonal matrix
16	Which of the following statements is most appropriate about effective nuclear charge? It depends upon.	A. The shielding constant. B. The atomic number C. The charge on the nucleus D. Both the nuclear charge and the shielding constant.
17	When a carbon atom forms single bonds with other carbon atoms, these hybrid orbitals overlap with the orbitals of hydrogen to form four bonds which are.	A. Three sigma and one P4 B. Two sigman of two Pi C. One sigma and three Pi D. Sigma
18	An are PQ is subtends an angle 60 ⁰ at the center of a circle fo radus 1 m . The length PQ is	A. 30 m B. 10 m C. π/6 m D. π/3 m <o:p></o:p>
19	Potassium is kept in	A. Water B. Ammonia C. Alcohal D. Kerosene
20	With the increase of temperature viscosity:	A. Increase B. Decrease C. Remains value D. Doubles
21	Cannizzaro reaction is not given by	A. Trimethyl accetaldehyde B. Accetaldehyde C. Benzaldehyde D. Formaldehyde
22	Benzene+Ozone Y, in this sequence Y is.	A. Benzene molozonide <o:p></o:p> B. Benzene diazonid C. Succinic acid D. Benzene triazolide
23	Surface tension of water is due to:	A. Inter molecular attractions B. Inter molecular spaces C. Inter molecular repulsion D. None of these
24	The rotation of two carbon atoms joined by double bond would happen only if	A. Pi bond is broken B. <c. <span="" style="font-family: Calibri, sans-serif; font-size: 14.6667px,">Both bond are brokenNone of above</c.>
25	Bell metal is an alloy of	A. Cu, Zn, and Sn B. Cu, Zn and Ni C. cu and Zn D. Cu and Sn
26	The common difference of the sequence 7,4,1, is	A. 1 B3 C. 5 D. 0
27	The alkali metal which is liquid at 15 ^o C is.	A. K B. Cs C. Na D. None
28	Oleum is	A. Castor oil B. Oil of vitriol C. Fuming of H ₂ SO ₄ D. None of them
29	Tollen's reagent is	A. Ammoniacal cuprous chloride B. Ammoniacal cuprous oxide C. Ammoniacal Silver nitrate D. Ammoniacal silver bromide
		A.

A. 8

30	The last orbit of argon would have electrons.	style="font-size:11.0pt;line-height:107%;font-family:"Calibri",sans-serif; mso-ascii-theme-font:minor-latin;mso-fareast-font-family:Calibri;mso-fareast-theme-font:minor-latin;mso-hansi-theme-font:minor-latin;mso-bidi-font-family:Arial; mso-bidi-theme-font:minor-bidi;mso-ansi-language:EN-US;mso-fareast-language:EN-US;mso-bidi-language:ER"> B. <c. <span="" style="font-family: Calibri, sans-serif; font-size: 14.6667px;"> < . < < < . < < < < < < < < < < < < < </c.>
----	---	--

46	In a voltmeter the conduction takes places due to:	A. Electron only B. Holes only C. Electrons and Holes D. Electrons and lons
47	The length of rectangle is twice as much s its breath, If the perimeter is 120 cm, the length of the rectangle.	A. <i>10 cm</i> B. 20 cm C. 30 cm D. 40 cm
48	For preparing an alkane, a concentrated aqueous solution of sodium of potassium salt of saturated carboxylic acid is subjected to.	A. Hydrolysis B. Oxidation C. Hydrogenation D. Electrolysis
49	The number of atoms contained in 11.2 L of SO ₂ at S.T.P are.	A. 3/2 x 6.02 x 10 ²³ B. 2 x 6.02 x 10 ²³ C. 6.02 x 10 ²³ D. 4.6.02 x 10 ²³
50	Which is not a colligative property?	A. Osmotic pressure B. Lowering of vapour pressure C. Depression of freezing point D. Elevation of boiling point
51	If $Sin\theta = 3/5$ then $cos\theta =$	A. <blockquote style="margin: 0 0 0 40px; border: none; padding: 0px;">1/2</blockquote> B. 3/5 C. 4/5 D. 1
52	The digestion of fats is the interaction is sided by	A. Diffusion B. Protection C. Pegtization D. Emulsification
53	The set {{a,b}} is	A. Infinite set B. Singleton set C. Two points set D. None of these
54	The force between two charges 0.06 m apart is 5 N. If each charge is moved towards the other by 0.01 m, then the force between them will become:	A. 7.20 N B. 11.25 N C. 22.50 N D. 25.00 N
55	The direction consines of y-axis are	A. 1,0,0 B. 0,1,0 C. 0,0,1 D. 1,1,1
56	When the displacement is half of the amplitude, the ratio of potential energy to the total energy is:	A. 1/2 B. 1/4 C. 1 D. ^{1/8}
57	Which of the following with aqueous KOH will give acetaldehyde?	A. 1-2 Dichloroethane B. 1,1 Dichloroethane C. Chloroacetic acid D. Ethyl chloride
58	The freezing point of 1 molal NaCl solution assuming NaCl to be 100% dissociated in water in.	A1.86 ^o C B3.72 ^o C C. +1.86 ^o C D. +3.72 ^o C
59	Total number of terms int he expansion of (a+b)n +(a-b) 5 after simplification are.	A. 3 B. 4 C. 1 D. 7
60	If $P(E)$ is the probability that can even will occur, then $P(E)$. =	A. 1 B. 0.5 C. 2 D. 0
61	Which of the following represents elements in order of increasing atomic size?	A. I, Br, Cl B. Na, Mg, C C. C,N,O D. Li, Na, K
62	If five triangle are constructed having sides of the lengths indicated below, the triangle that will	A. 8,15,17 B. 3,4,5 C. 12 15 18

	NOT be a right angle is.	D. 5,12,13
63	$x^2 + 2x - 25 = 0$ is	A. A polynomial B. An inequality C. An identity D. A linear function
64	What is the ratio of r.m.s velocity for O_2 to H_2 ?	A. 1/4 B. 4 C. <b style="color: rgb(34, 34, 34); font-family: arial, sans-serif; font-size: <math>16px</math>,">$\sqrt{\begin{subarray}{l} \end{subarray}}$ font-family: arial, sans-serif; font-size: $16px$,">$\sqrt{\begin{subarray}{l} \end{subarray}}$ 1 b. 1 :<b style="color: rgb(34, 34, 34); font-family: arial, sans-serif; font-size: <math>16px</math>,">$\sqrt{\begin{subarray}{l} \end{subarray}}$ font-family: arial, sans-serif; font-size: $16px$,">$\sqrt{\begin{subarray}{l} \end{subarray}}$ font-family: arial, sans-serif; font-size: $16px$, sans-serif; font-size: $16px$, sans-serif; font-size: 16
65	The formula of calcium cyanamide is	A. Ca(CN) ₂ B. CaC ₂ N C. CaNCN D. CaCHNH ₂
66	The weight of 11.2 litres of CO ₂ at S.T.P. would be	A. 88 g B. 44 g C. 32 g D. 22 g
67	The heats evolved in combustion of rhombic and monoclinic sulphur are 70960 and -71030 cal mol ⁻¹ respectively. What will be heat of conversion of rhombic sulphur to monoclinic?	A. 70960 calories B. 71030 calories C70 calories D. +70 calories
68	What quantity of limewtone on heating will give 56 kg of CaO?	A. 1000 kg B. 56 kg C. 44 kg D. 100 kg
69	A clathrate may be defined as a	A. Cage compound <o:p></o:p> B. Liquid crystal C. Mixture D. solid solution
70	Which one is not a pollutant normally?	A. Hydrocarbons B. Carbon dioxide C. Carbon monoxide D. Sulphur dioxide
71	How many kinds of space lattices are possible in a crystal?	A. 7 B. 23 C. 14 D. 230
72	The unit of all positive even integers is	A. Not a group B. A group w.s.s. subtraction C. A group w.s.s. division D. a group w.s.s. multipication
73	The credit of discovering neutron goes to.	A. Rutherford B. Langmuir C. Chadwick D. Austen
74	Sodium thiosulphate is used in photography because of its	A. Reducing behavior B. Oxidizing behavior C. Complexing behavior D. Photochemical behavior
75	The line through the centre and perpenduclar to the transverse axis is called the	A. Major axis B. Minor axis C. Focal axis D. Conjugate axis
76	The sum of the eges of Nazish and his son is 56 years. Eight years ago, Nazish was 3 time as old as his son. How old is the son now.	A. 18 years B. 36 years C. 8 years D. 16 years
77	The principle constituent of pyred glass is	A. Zn B. B C. Pb D. Cl

78	Which of the following is directly related to Qualitative analysis?	A. Identification B. Seperation C. Measurement D. Calculation
79	If 0 <n<1, (1+x)n="" a="" are<="" expansion="" in="" is="" n="" number="" of="" rational="" td="" terms="" the=""><td>A. n+1 B. 2n C. Infinitely many D. 2n2</td></n<1,>	A. n+1 B. 2n C. Infinitely many D. 2n2
80	In Young's experiment, two coherant sources are placed 0.90mm apart and the fringes are observed one metre away. If its produces the second dark fringe at a distance of 1mm from the central fringe, the wavelength of monochromatic light used would be	A. 60 x 10 ⁻⁴ cm B. 10 x 10 ⁻⁴ cm C. 10 x 10 ⁻⁵ cm D. 6 x 10 ⁻⁵ cm
81	If the period of oscillation of mass (M) suspended from a spring in 2s, then the period of mass 4 M will be	A. 1s B. 2s C. 3s D. 4s
82	Given eight points in a plane, no theee of which are collinear. How many lines do the points determine?	A. 16 B. 28 C. 64 D. 36
83	Cyclone collector is used for minimizing	A. Radioactive pollution B. Air pollution C. Noise pollution D. Water pollution
84	In the equilibrium N ₂ + 3H ₂ ⇌ 2NH ₃ +22 kcal The formation of ammonia is favoured by	A. Increased the pressure B. Increase the Temperature C. Decreasing the pressure D. Adding ammonia
85	Boyle's law is applicable in	A. Isochloric process B. Isothermal process C. Isobaric process D. Isotoic process
86	Bicl2 on hydrolysis forms a white precipitate of.	A. Bismuthio acid B. Bismuth oxychloride C. Bismuth peutachloride D. Bismuth Hydroxide
87	a+x is	A. A trinomial B. A binomial C. A monomial D. An equation
88	If f1(x) and f2(x) are any two and derivatives of a function F (x) ,then the value of f1(x), - f2(x)=	A. A variable B. A constant C. Undefined D. Infinity
89	If the metal bob is a simple pendulum is replaced by a wooden bob, then its time period will	A. Increase B. Decreases C. Remain the same D. First "A" then "B"
90	lonic solids with defects, contain.	A. Equal number of cation and anion vacancies B. Interstitial anions and anion vacancies C. Cation vacancies only D. Cation vacancies and interstitial cations.
91	Given below are some statements concerning formic acid, with of them is true?	A. It is a weaker acid than acetic acid B. It is a reducing agent C. When its calcium salt is heated, it forms a ketone D. It is an oxidizing agen
92	In a school, there are 150 students out of these 80 students enrolled for mathematics class, 50 enrolled for english class, and 60 enrolled for physics class. The student enrolled for English cannot attend any other class, but the students of mathematics and physics can take two courses at a time. Fiind the number students who have take sboth physics and mathematics	A. 40 B. 30 C. 20 D. 50
93	Octane number can be changed by	A. Isomerization B. Alkylation C. Cyclisation D. All of these

^ ^

94	The point (-5,3) is the center of a circle and P(7,-2) lies on the circle The radius of the circle is.	A. 2 B. 13 C. 7 D. 8
95	The set (Q,)	A. Forms a group B. Does not form a group C. Contains no additive identity D. Contains no additive inverse
96	Which of the following mineral does not contain Al?	A. Cryolite B. Mica C. Feldspar D. Fluorspar
97	If any two rows of a square matrix are inter changed she determinant of the result matrix is.	A. Same as the original determinant B. Additive inverse of the original determinant C. Both A and B D. Adj of the original matrix
98	Minamats discase is due to pollution of	A. Organic waste into drinking water B. Oil spill in water C. Industrial waste containing mercury into flashing waters D. Arsenic into the atmosphere
99	Choose the correct statement:	A. Both an ammeter and voltmeter should have small resistance B. Both an ammeter and a voltmeter should have large resistance C. An ammeter should have large resistance and a voltmeter should have small resistance D. An ammeter should have small resistance and a voltmeter should have large resistance
100	If N_A is Avogadro's number , then numebr of valence electrons in 4.2 g of nitride ions N_3 is.	A. 2.4 N _A B. 4.2 N _A C. 1.6 N _A D. 3.2 N _A
101	Which one of halogen acid is a liquid/	A. HF B. HCI C. HBr D. HI
102	An electrolyte	A. Gives ions only when electricity is passed B. Forms complex ions in solution C. Possesses ions even in solid state D. Gives ions only when dissolved in water
103	Which one is not usually used for the crystallization?	A. Acetone B. Acetic acid C. Sulphuric acid D. Chloroform
104	Which is the most volatile compound?	A. HI B. HCI C. HBr D. HF
105	A conducting wire is drawn to double its length. Final resistance of the material will be:	A. Double of the original one B. Half of the original one C. One-fourth of the original one D. Same as original one
106	Two point charge $+3\mu$ C and $+8\mu$ C repel each other with a force of 40 N. If a charge of - 5μ C is added to each other of them, then the force between them will become	A10 N B. +10 N C. +20 N D20 N
107	Which of the following pairs are chemically dissimilar?	A. Na and K B. Be and Sr C. Zr and Hr D. Ca and Zn
108	Benzene is obtained by fractional distillation of	A. Heavy oil B. Anthracene oil C. Light oil D. Middle oil
109	Total number of terms in the expansion of (a+b) 2 + (a-b) 2 after simplification are.	A. 3 B. 1 C. 4 D. 7
110	Two electric bulbs of 200 W and 100 W have same voltage. If R_1 and R_2 be their resistance respectively then	A. R ₁ = 2R ₂ B. R ₂ = 2R ₁ C. R ₂ = 4R ₁ D. R ₁ = 4R ₂

111	A 50-volt battery is connected across 10-ohm resistor. The current is 4.5 A. The internal resistance of the battery is	A. \angle ero B. 0.5 Ω C. 1.1 Ω D. 5.0 Ω
112	If $Sin \theta = Cos \theta tan \theta =$	A. <div>30^o</div> B. 45 ^o C. 90 ^o D. 60 ^o
113	The number of diagonals of a six sided figure are.	A. 9 B. 6 C. 3 D. 12
114	Relation between pressure (P) and energy (E) of a gas is:	A. P=2/3E B. P=1/3E C. P=3/2E D. P=3E
115	The number of oxygen atoms in $4.4~\mathrm{g}$ of CO_2 is approximately	A. 1.2 x 10 ²³ B. 6 x 10 ²³ C. 6 x10 ²² D. 12 x10 ²³
116	The rate of reaction can be increased in general by all the actors except by	A. Using a catalyst B. Increasing Temperature C. Increasing the activation energy D. Increasing the conc. of reactants
117	Two point charges placed at distance if 20 cm in air repel each other with a certain force. When a dielectric slab of thickness 8 cm and dielectric constant K is introduced between these point charges, force of interaction becomes half of its previous value. Then K is approximately.	A. 2 B. 4 C. <b style="color: rgb(34, 34, 34); font-family: arial, sans-serif; font-size: 16px;">√ 2 D. 1
118	Which quantum number is sufficient to describe the electron is hydrogen atom.	A. I B. n C. m D. s
119	Phosphide ion has the electronic structure similar to that of	A. Nitride ion B. Fluoride ion C. Sodium ion D. Chloride ion
120	The symbol of the element whose atoms have the outer most electronic configuration $2s^2 2p^3$ is	A. N B. Li C. P D. Na
121	If the solvent is inflammable for heating purpose we use.	A. Ice bath B. Water bath C. Wire gauze D. Thermostat
122	If you are looking a high point from the ground, then the angle formed is	A. Angle of elevation B. Angle of depression C. Right angle D. Horizone
123	Fertilizer are made by	A. Nature only B. Artificial methoods only C. Both artifical and Natural methods D. None of these
124	An angle of one radian is equivalent to	A. 90 ^o B. 60 ^o C. 67 ^o D. 57 ^o 18
125	The unit of electric current 'ampere' is the amount of current flowing through each of two parallel wires 1 m apart and of infinite length will give rise to a force between them equal to:	A. 1 Wm B. 2 x 10 ⁻⁷ N/m C. 1 x 10 ⁻² N/m D. 4 π x 10 ^{-7W/m}
126	Two dice are rolled the number of possible outcome in which at least one die show 2 is	A. 5 B. 12 C. 11 D. 7
197	The number of electron in the M shell of the	A. 8 B. 12

141	element with atomic number 24 is.	C. 13 D. 24
128	Which of the following is not thermo dynamic function?	A. Enthalpy B. Gibb's energy C. Work done D. Internal energy
129	In a simple hormonic motion the kinetic energy (KE) and the potential energy (PE), such that throughout the motion	A. KE remain constant B. PE remains constant C. KE/PE remains constant D. KE + PE remains constant
130	If the sum of the roots of the equation $ax^2 - 2x + 2a = 0$ is equal to their product, then the value of a is	A. 1 B. 2 C. 3 D. 4
131	Each of the followihing is true of white and red phosphours aexcept that they	A. Are both soluble in CS2 B. Can be oexidized by heating in air C. Consists of the same kind of atoms D. Can be converted into one another
132	The unit of rate constant for a zero order reaction is.	A. Litre sec ⁻¹ B. Litre mol ⁻¹ sec ⁻¹ C. Mol litre ⁻¹ sec ⁻¹ D. Mol Sec ⁻¹
133	The molal elevation constant is the ratio of the elevation in boiling point to .	A. Molarity B. Molality C. Mole fraction of solute D. Mole fraction of solvent
134	The sum of the interior angles for a 16 sided polygon is.	A. 4 π [endif] <o:p></o:p> B. 14 π [endif] <o:p></o:p> C. 8 π D. 2 π
135	A point of a solution region where two of its boundary lines intersect, is called.	A. Boundary B. Inequality C. Half plane D. Vertes
136	Calcium acetate when dry distilled given.	A. Formaldehyde B. Acetaldehyde C. Acetone D. Acetic anhydride
137	The sum of the series 1+5+9+13+17+21+29 is	A. 140 B. 130 C. 110 D. 120
138	All the naturally occurring processes proceed spontaneously in a direction which lead to.	A. Decrease of entropy B. Increase of enthalpy C. Increase of free energy D. Decrease of free energy
139	The total cost of 2 apples and 3 oranges is \$1.70, which of the following is true.	A. The cost of one apple B. The cost of one orange C. Both have equal cost per item D. Cost of each single item connot be determined
140	The set of the first elementof the ordered pairs forming a relation is called is.	A. Function on B B. Range C. Domain D. A into B
141	The product of the pressure and volume of an ideal gas is	A. A constant B. Approximately equal to the universal gas constant C. Directly proportional to its temperature D. Inversely proportional to its temperature
142	The time period of a simple pendulum is 2 seconds. If its length is increased by four times, then its period becomes	A. 16 s B. 12 s C. 8 s D. 4 s
143	The number of tranlation degrees of freedom for a dismeter gas is:	A. 2 B. 3 C. 5 D. 6
144	There are 30 Red, 20 Green, and some Blue halls in a had, if the probability of finding a Red	A. 120 B. 20

177	ball is 1/3, how many are red balls in the bag.	C. 40 D. 90
145	Derivative of strictly increasing functio is always.	A. Zero B. Positive C. Negative D. Both a and b
146	A charge Q is divided into two parts q and Q -q and seperated by a sdistance P. The force of repulsion between them will be maximum when:	A. q=Q/4 B. q=Q/2 C. q=Q D. None of these
147	In a simple hormonic motion (SHM), which of the following does nothold?	A. The force on the particle is maximum at the ends B. The acceleration is inimum at the mean position C. The potential energy is maximum at the mean position D. The kinetic energy at the mean position
148	A function F(x) is called even if.	A. $F(x) = F(-x)$ B. $F(x) = F(-x)$ C. $F(x) = -F(x)$ D. $2F(x) = 0$
149	Which of the following is the equation of a line with slope 0 and passing through the point (4,3)	A. X = 4 B. X = -4 C. Y = 3 D. Y = -6
150	In which case does the potential energy decreases ?	A. On compressing a spring B. On stretching a spring C. One moving a body against gravitatainal force D. Over the rising of an air bubble in water
151	The wire inthe flash bulbs is made up of	A. Mg B. Ba C. Cu D. Ag
152	When sound waves travel from air to water which of these remains constant?	A. Velocity B. Frequency C. Wavelength D. All of the above
153	Wt. of 112 ml of oxygen at NTP on liquification would be .	A. 0.32 g B. 0.64 g C. 0.15 g D. 0.96 g
154	Which has largest first ionization energy?	A. Li B. Na C. K D. Rb
155	Which of the following geometry is associated with the compound in which the central atom assumes sp ³ d hybridization?	A. Planar B. Pyramidal C. Angular D. Trigonal bipyramidal
156	Hyrdrogen chloride molecule contains	A. Covalent bond B. Double bond C. Co-ordinate bond D. Electrovalent bond
157	If k2:k1= 1:1 then the point P dividing the line is.	A. Mid point B. Extreme left point C. Extreme Right point D. P lies out side k1 and k2
158	Sea weeds are important source of	A. Iron B. Chlorine C. lodine D. Bromine
159	At a certain instant a stationary transverse wave is found to have maximum kinetic energy. The appearance of string of that instant is:	A. Sinusoidal shape with amplitude A/3 B. Sinusoidal shape with amplitude A/2 C. Sinusoidal shape with amplitude A D. Straight line
160	The linie joining (1,3) to (a,b) has unit gradient then	A. a-b = -2 B. a+b = 0 C. a-b=5 D. 2a +3b =1
161	Which of the following inprts violet colouration to the non-luiminous flame of Bunsen burner?	A. NaCl B. BaCl ₂ C. CaCl ₂ D. KCl
		A

162	The reaction/method that does not give an alkane is.	family:"Calibri",sans-serif;mso-ascii-theme-font:minor-latin;mso-fareast-font-family: Calibri;mso-fareast-theme-font:minor-latin;mso-bidi-font-family:Arial;mso-bidi-theme-font:minor-bidi;mso-ansi-language: EN-US;mso-fareast-language:EN-US;mso-bidi-language:ER">Catalytic hydrogenation of alkanes B. Wurtz reaction <b <="" b=""> < 0:p > C. Hydrolysis of alkyl magnesium bromide D. Dehydrohalogenation of an alkyl halide <0:p >
163	Sulphonation of benzoic acid produces mainly	A. o- sulfobenzoic acid B. m- sulfobenzoic acid C. p- sulfobenzoic acid D. o- and p- sulfobenzoic acid
164	The length of a telescope is 26 cm. The focal length of its lenses can be	A. 30 cm, 6 cm B30 cm, -6 cm C. 30 cm, -6 cm D30 cm, 6 cm
165	If a come is cut by a plane perpendicular to the axis of the cone, then the section is a.	A. Parabola B. Circle C. Hyperbola D. Ellipse
166	An exothermic reaction is one in which the reacting substances.	A. Have more energy than the products B. Have less energy than the products C. Have the same energy as the products D. Are at a higher temperatue than the products.
167	Which is in the solution set of 4x-3y<2	A. (3,9) B. (4,1) C. (1,3) D. None
168	The total number of protons in 10 g of calcium carbonate is (N6 = 6.023×10^{23})	A. 1.5057 X 10 ²⁴ B. 2.0478 x 10 ²⁴ C. 3.0115 x 10 ²⁴ D. 4.0956 x 10 ²⁴
169	Which species represents the electrophile in aromatic nitrotation?	A. NO ₂ B. +NO ₂ C. No ₃ D. NO ₂₋
170	Mild oxidation of glycerol with H2O2/FeSO4 gives	A. Glyceraldehyde B. Dihydroxy acetone C. Glycerose D. None
171	Vitamin A is present is	A. Liver B. Milk C. Vegatable D. All
172	What is the domain of y = Cot-1 X?	A. Set of irrational numbers oly B. Set of all real numbers C. Set of all real numbers D. Set of complex numbers only
173	Which inorganic precipitate acts as semipermeable membrane?	A. Calcium sulphate B. Barium oxalate C. Nickel phosphate D. Copper ferrocyanide
174	Saturated solution of NaCl on heating becomes.	A. Super saturated B. Unsaturated C. Remains saturated D. None
175	Chili salt petre is.	A. NaNO ₃ B. Na ₂ SO ₄ C. KNO ₃ D. Na ₂ S ₂ O ₃
176	Which of the following value of △Hf represent that the product is least stable?	A94.0 kcal mol ⁻¹ B231.6 kcal mol ⁻¹ C. +21.4 kcal mol ⁻¹ D. +64.8 kcal mol ⁻¹
	•	

177	Which of the following has greatest tendency to lose electron.	A. F B. Fr C. S D. Be
178	Vital force theory was rejected by	A. Berzelius B. Kolbe C. Wholer D. Lavoiser
179	Setting of cement is an	A. Exothermic reaction B. Endothermic reaction C. Neither exothermic not endothermic D. None
180	Which of the following is an example of body centred cube?	A. Magnesium B. Zinc C. Copper D. Sodium
181	√23 is	A. A rational number B. A irrational number C. An even integer D. A factor of 36
182	If 2 Sin x Cos 2 x =/6 Sin x then?	A. $X = n\pi + \pi/6 <0:p>> p \ class="MsoNormal"><0:p> B. X = n\pi + \pi/3 <0:p> class="MsoNormal"><0:p> C. X = n\pi + 1 <0:p> D. X = n\pi + \pi/2 <0:p> C. X = n\pi + \pi/2 <0:p> C. X = n\pi + \pi/2 <0:p> C. X = n\pi + \pi/2 <0:p> C. X = n\pi + \pi/2 <0:p> $
183	The total pressure exerted by a number of non- reacting gases is equal to the sum of partical pressure of the gases under the same conditions is known as.	A. Boyle's law B. Charle's law C. Avogadro's law D. Dalton's law
184	The multiplicative inverse of x such that x = 0 is	Ax B. does not exist C. 1/x D. 0
185	The difference of two consective terms of an A.P is called.	A. Constant of Series B. Common ratio C. Common difference D. General term
186	1 mole of CH ₄ contains	A. 6.02 x 10 ²³ atoms of H B. 4 g atom of hydrogen C. 1.81 x 10 ²³ molecules of CH4 D. 3.0 G OF CARBON
187	Int he expansion of $(a+b)^6$ in every term the sum of the exponent of and b is	A. n1 B. n+1 C. 2n-1 D. 2n+1
188	An endothermic reaction is one in which	A. Heat is converted into electricity B. Heat is absorbed C. Heat is evolved D. Heat is converted into mechanical work.
189	If the diagonal of a square has coordinates (1,2) and (5,6), the length of a side is	A. 1 B. 3 C. 5 D. 4
190	If the angle of a triangle are in the ratio 2:3:7, the triangle is .	A. Obtuse B. Acute C. Right angle D. Isosceles
191	Insert pair effort plays an important role in case of.	A. F B. AI C. Si D. Ti
192	A sequence of number whose reciprocals form an arithmetic sequence is called.	A. Harmonic series B. Arithmetic series C. Harmonic sequence D. Geometic sequence
193	Sin (a+b) + Sin (a-b) =	A. Sin a Cos b B. Sin a Sin b C. Sin a + Cos b D. Sin a - 2 Cos b
		A. Changes in heat or reaction

A. F

194	Hess's law deals with	B. Rate of reaction C. Equilibrium constnat D. Influence of pressure on volume of a gas
195	The main structur feature of proteins is	A. an either linkage B. The peptide linkege C. An ether linkage D. All
196	Satol is prepared from	A. Salicylic acid and Phenol B. Salicylic acid and methyl alchol C. Both D. None of these
197	Ammonia gas used directly as a fertilizer is injected into the soil at a depth of about.	A. Two inches B. three inches C. Five inches D. Six inches
198	Write the first four terms of the arithmetic sequence if a =5 and other three consecutive terms are 23,26,29	A. 23,26,29,32 B. 5,8,11,14 C. 8,11,14,17 D. None of these
199	Potassium crystallizes with a	A. Orthogonal lattice B. Cubic lattice C. Triclinic D. Ortho rhombic lattice
200	When the length of a microscope tube increases, its magnifying power	A. Decreases B. Increases C. Do not change D. May increase or decrease depending on the observer and the place of observation
201	If of litee of air is passed repeatedly over heated copper and magnesium till no further reduction in volume takes place, the volume finally obtained would be approximately.	A. <u >< i> 10 ml <o:p></o:p> B. 800 ml C. zero D. 200 ml</u >
202	If a diamagnetic substance is brought near north or south pole of a bar magnet it is:	A. Attracted by the poles B. Repelled by the poles C. Repelled by north pole and attracted by the south pole D. Attracted by north pole and repelled by the south pole
203	The treatment of benzene with isobutene in the presence of sulphuric acid give.	A. Isobutyl benzene B. Tert Butyl benzene C. n-Butyl benzene D. no reactions
204	Crystal can be classified int o basic crystal habits.	A. 3 B. 4 C. 7 D. 14
205	In which quadrant is the solution of the equation $\sin x - 1 = 0$	A. Il quadrants B. Il and III quadrants C. III and IV quadrants D. I quadrant
206	The associative angle of 280 ^o is	A. 100 ^o B. 10 ^o C. 80 ^o D80 ^o
207	In a reversible chemical reaction having two reactants in equilibrium, it the concentration of the reactants are doubled then the equilibrium constant will	A. Also be doubled B. Be halved C. Becomes one fourth D. Remains the same
208	How many elements are in teh sample spacve of two rolling dies	A. 6 B. 12 C. 18 D. 36
209	Heating a mixture of sodium benzoate and soda lime gives.	A. Benzene B. Methane C. Sodium Benzoate D. Calcium benzoate
210	If 2.2 kilowatt power is transmitted through a 10 ohm line at 22000 volt, the power loss in the	A. 0.1 watt B. 1 watt C. 10 watt

	form of heat will be:	D. 100 watt
211	Mark the smallest atom	A. F B. Cl C. Br D. I
212	The nth term of A.P. 1,5,9,15 is given by	A. 4n -3 B. 4n+1 C. 3n-4 D. 4n+3
213	Which one of the following phenomena is not explained by Huygen's construction of wavefront?	A. Refraction B. Reflection C. Differaction D. Origin of spectra
214	The dimension of rate constant of a second order reaction involves.	A. Neither time nor concentration B. Only time C. Time and concentration D. Time and square of concentration
215	ab >0 and a> 0 then	A. a>b B. a <b a="b" c.="" d.="" none<="" td="">
216	If line passes through origin, then the equation of the line is.	A. y = m/x B. y = mx C. x = my D. None
217	If a rectangle has as area 81 x2 and length of 27 x, then what is its width.	A. 3x B. 9x C. 2x D. 4x
218	In aMillikan's oil drop experiment the charge in an oil drop is calculated to be 6.35 x 10 ⁻¹⁹ C. The nuimber of excess electrons on the drop is:	A. 3.9 B. 4 C. 4.2 D. 6
219	For which of the following ordered pairs (s,t) is s+1>2 and x-1 <-3?	A. (1,2) B. (3,2) C. (1,8) D. (2,3)
220	If the amplitude of sound is doubled and frequency reduced to one-fourth, the intensity of sound at the same point will be:	A. Increasing by a factor of 2 B. Decreasing by a factor of 2 C. Decreasing by a factor of 4 D. Unchanged
221	Natural fertilizer from plants and animals provide nitrogen	A. 1.5 kg B. 3.0 kg C. 4.5 kg D. 6 kg
222	A (1000 W, 200 V) bulb is connected to a 160 V power supply. The power sonsumption would be:	A. 64 W B. 80 W C. 100 W D. 125 W
223	Gooch crucible used to filter the solution	A. H ₂ SO ₄ B. HCl C. KMnO ₄ D. Both B and C
224	Aryl halides are less reactive towards nucleophilic substitution reactions as compared to alkyl halides due to	A. Resonance stabilization <o:p></o:p> <o:p></o:p> B. The formation of less stable carbonium ion C. larger carbon halogen bond D. the inductive effect.
225	Portland cement is manufactured by using.	A. Limestone, clay and sand B. Limestone, gypsum and sand C. Limestone, gypsum and alumina D. Limestone, clay and gypsum
226	Ethanol containing some methanol is called.	A. Absolute spririt B. Rectified spirite C. Power alcohol D. Methylated spririt
227	The acid used in lead storage cells is	A. Phosphoric acid B. Nitric acid C. Sulphuric acid D. Hydrochloric acid
		Δ Renzene

228	Sodium Metal cannot be stored under	B. Kerosene oil C. Alcohol D. Toluene
229	Most common reactions of benzene and its derivative sare.	A. Electrophilic substitution reactions.<o:p></o:p> B. Electrophilic addition reactions C. Nucleophilic substitution reactions <o:p></o:p> D. Nucleophilic addition reactions
230	Cos 315 ⁰ =	A. 0.707 B. 0.5 C. 1 D. 0
231	The pendulum clock set to give correct time in Karachi is taken to Quetta. It would give correct time if:	A. The mass of the pendulum is increased B. The mass of the pendulum is decreased C. The length of the pendulum is increased D. The length of the pendulum is decreased
232	The incorrect statement regarding the lines of force of the magnetic field B is A. Magnetic intensity is a measure of lines of force passing through unit area held normal to it	A. Magnetic lines of force form a close curve B. Inside a magnet, its magnetic lines of force moves from north pole of a magnet towards its south pole C. Due to a magnetic lines of force never cut each other D. Magnetic intensity is a measure of lines of force passing through
233	In which of the following element +1 oxidation state is more stable then +3	A. B B. Al C. Ga D. Ti
234	Outermost shells of two elements X and Y have two and six electrons respectively. If they combine , the expected formula of compound will be .	A. XY B. X ₂ Y C. X ₂ Y2 D. XY ₂
235	Read P cna be obtanied from white P by	A. Heating atmosphere B. Distilling it is an inert atmosphere C. Dissolving it in CS2 nad crystallizing. D. Melting it ad pouring the liquid into water.
236	r+3>5 then which is true	A. r+2 >4 B. r+2 <4 C. r+2 =4 D. None
237	Calcium cyanamide on treatment with steam under pressure gives NH3 and.	A. Calcium carbonate B. Calcium hydroxide C. Calcium oxide D. Calcium bicarbonate
238	Which of the following reactions is used for detecting presence of carbonyl group.	A. Reaction with hydroxylamine B. Reaction with hydrazine C. Reaction with phenyl hydrazine D. All
239	The Percentage of oxygen in NaOH is .	A. 40 B. 60 C. 8 D. 10
240	The set of complex numbers forms a group under the binary operation of	A. Addition B. multiplication C. Division D. Substraction
241	Which one of teh following has the lowest boiling point.	A. B B. Al C. Ga D. Ti
242	One of the roots of the equation $2x^2 + 3x + n = 0$ is the reciprocal of the other , then $n = 0$	A. 1 B. 2 C. 3 D. 4
243	The value of the polynomial $3x^3 + 4x^2 - 5x + 4$ at $x = -1$ is	A. 1 B. 12 C. 10 D10
244	The smooth or steady stream-line flow is know as:	A. Laminar flow B. Turbulant flow C. Both A & D. None of these

245	Sin720 ⁰ =	B. 0 C. 2 D. 1/2
246	Wholer prepared urea from	A. Ammonia B. NH₄CNO C. NH ₅ D. Uric acid
247	Hydrolytic conversion of sucrose into glucose and fructose is known as.	A. Induction B. Inversion C. Insertion D. Inhabition
248	Absolute temperature can be calculated by:	A. Mean square velocity B. Motion of the molecule C. Both A and B D. None of these
249	The vertices of the ellipse $x^2 + 4x^2 = 16$ are.	A. (+,4,0) B. (0, +4) C. (+2,0) D. (0,+2)
250	The conductivity of a superconductor is:	A. Infinite B. Very large C. Very small D. Zero
251	The pore size of the filter paper depends upon	A. Nature of the medium B. Tehperature of the medium C. Size of the particles D. Mass of the particles
252	The following has zero valency	A. Na B. Be C. Al D. Kr
253	The number of unpaired electrons in the p-subshell of oxygen atom.	A. 1 B. 2 C. 3 D. 4
254	As a fixing agent in photography sodium thisoulphate is use for.	A. Dissolving out unreached silver bromide B. Converting silver halides to metallic silver C. Reducing solubility of AgBr D. Preventing overdeveloping and foggine.
255	Maximum number of active hydrogens are present in.	A. Acetic acid B. Glycerol C. Methane D. Methanol
256	The percentage of nitrogen in uria is	A. 46 B. 60 C. 70 D. 80
257	An m x n matrix is said to be rectangular if	A. $<$ u $><$ li> $>$ m = $nli>><lu> B. m\neq n C. mn =1 D. mn = 0$
258	The rate at which a substance reacts depends on its.	A. Atomic weight B. Aquivalent weight C. Molecular weight D. Active mass
259	Hybridization explain the of orbitals.	A. Type of Bonding B. Shapes C. Shapes and type of bonding D. None of above
260	Calcium acetate when dry distilled gives.	A. Formaldehyde B. Acetaldehyde C. Acetone D. Acetic anhydride
261	Any point, where f is neither increasing nor decreasing and $f(x) = 0$ at that point, is called a.	A. Minimum B. Maximum C. Stationary point D. Constant point

262	When quantity of electricity passed is one faraday then the mass deposited at the electrode is equal to	A. One gm atomic weight B. One gm Equivalent weight C. Electrochmical equivalent D. None ofthe above
263	Two dice are rolled the numebr of possible outcome is which at least one die show 2 is.	A. 5 B. 12 C. 11 D. 7
264	A piece of fuse wire melts when a current of 15 ampere flows through it. With this current , if it dissipates 22.5 W, the resistance of fuse wire will be:	A. Zero B. 10 Ω C. 1 Ω D. 0.10 Ω
265	The excess (equal in number) of electrons that must be placed on each of two small spheres placed 3 cm apart, with force of repulsion between the spheres to be 10 ⁻¹⁹ N, is	A. 25 B. 225 C. 625 D. 1250
266	All of the following statements are correct except	A. The total focal length of an astronomical telescope is the sum of the focal lengths of its two lenses B. The image formed by the astronomical telescope is always erect because the effect of the combination of the two lenses is divergent C. The magnification of an astronomical telescope can be increased by decreasing the focal length of the eyepiece D. The magnifying power of the refracting type of astronomical telescope is the ratio of the focal length of the objective to that of the eye piece
267	The mass of the neutron is of the order of.	A. 10 ⁻²³ kg B. 10 ⁻²⁴ kg C. 10 ⁻²⁶ kg D. 10 ⁻²⁷ kg
268	The distance between node and anti-node is:	A. <span style="color: rgb(34, 34, 34); font-family: arial, sans-serif; font-size: <math>16px</math>,">λ B. <span style="color: rgb(34, 34, 34); font-family: arial, sans-serif; font-size: <math>16px</math>,">λ/2 C. <span style="color: rgb(34, 34, 34); font-family: arial, sans-serif; font-size: <math>16px</math>,">λ/4 D. 2 <span style="color: rgb(34, 34, 34); font-family: arial, sans-serif; font-size: <math>16px</math>,">λ/
269	Which metal is protected by a layer of its own oxide?	A. Al B. Ag C. Au D. Fc
270	Rusting of iron is catalyzed by	A. Fe B. O ₂ C. Zn D. H
271	If P and r are integers, p≠ 0, and p- r, which of the following must be true?	A. p <r b.="" p="">r C. p=r=0 D. p-r=0</r>
272	The relative rates of diffusion of a gas (Mol wt = 98) as compared to hydrogen will be.	A. 1/7 B. 1/5 C. 1/4 D. 1
273	The range of inequality x +2>4 is	A. (-1,2) B. (-2,2) C. (1,-1) D. None of these
274	In the manufacture of iron from hematite, Limestone is added to act as.	A. Flux B. A reducing agent C. An oxidizing agent D. Stage
275	Ethyl chloride on treatment with aqueous alkali gives.	A. Ethane B. Ethanol C. Ethene D. Ethanal

276	A (1000 W, 200 V) bulb is connected to a 160 V power supply. The power sonsumption would be:	B. 80 W C. 100 W D. 125 W
277	The density of nitrogen gas prepared from air is slightly greater than that of nitrogen prepared try a chemical reaction form a compound of nitrogen due to the presence of the following in aerial nitrogen.	A. Argan <o:p></o:p> B. CO2 C. Some nitrogen molecule D. None of thes
278	With the propagation of a longitudinal wave through a material medium, the quantities transmitted in the propagation direction are	A. Energy , momentum and mass B. Energy C. Energy and mass D. Energy and linear momentum
279	A 2 kg body and a 3 kg body have equal momentum. If the kinetic energy of 3 kg body is 10J. the KEof 2 kg body will be:	A. 6.663 J B. 15 J C. 22,5 J D. 45 J
280	The order of reactivity of halogens in aliphatic substitution reactions is.	A. Br2>Cl2>F2 B. Cl2>Br2>F2 C. Cl2 Cl2>Br2 D. F2>Br2>Cl2
281	Blood has a density :	A. Equal to water B. Greater than water C. Lesser then water D. None of these
282	2 g of oxygen contains number of atoms equal to that in.	A. 0.5 g of hydregen B. 4 g of sulphur C. 7 g of nitrogen D. 2.3 g of sodium
283	Covalent compounds are soluble in .	A. Polar solvents B. None polar solvents C. Concentrated acids D. All solvents
284	Magnesium keeps on burning in .	A. N ₂ B. CO ₂ C. N ₂ O D. N ₂ as well as CO ₂
285	A converging lense is used to form an amage on a screen. When the upper half of the lens is covered by an opaque screen:	A. Half the image will disappear B. No change either in size or in intensity C. Intensity of image will decrease D. intensity of the image will decrease
286	At 0°K which of the following properties of a gas will be zero?	A. Kinetic energy B. Potential energy C. Viberational energy D. Density
287	Which of the following has no tin in teh composition.	A. Solder B. Bronze C. Brass D. Tin stone
288	Which of the following is monoatomic?	A. Oxygen <o:p></o:p> B. Neon C. Flurorine D. Nitrogen
289	In Binomial expansion the coefficients of the terms equidistant from beginning and end of the expansion are.	A. Zero B. Same C. Equal to preceding term D. Equal to following term
290	The pure crystalline substance on being heated gradually first forms a turbid liquid at constant temperature and still at higher temperature turbidity completely disappears. The behaviour is a characteristic of substance forming.	A. Allotropic crystal B. Liquid crystals C. Isomeric crystals D. Isomorphous crystals
291	Cot 360° =	A. Undefined B. 0.707 C0.5 D. 0
292	Chief air pollutant watch is likely is depressed ozone layer	A. sulphur dioxide B. Carbon dioxide C. Nitrogen oxide and chlorofluorocarbon

		D. None of these
293	The curves $y = x^2$, $y = x$ intersect at .	A. (0,0),(1,1) B. (2,4) C. (0,-1) D. (0,3),(-1,1)
294	Second derivative of $y = x^9 + 10 x^2 + 2x - 1$ at $x = 0$ is	A. 10 B. 20 C. 12 D. 1
295	Evaporation of water is	A. An exothermic change B. An endothermic change C. A process where no heat changes occur D. A process accompanied by chemical reaction
296	Which of the maximum protein conduct.	A. Gravand B. Coner milk C. Eggs D. Wheat
297	Fluorine does not show positive oxidation states due to the absence of .	A. d- orbitals B. s-orbitals C. p- orbitals D. None
298	Enzymes are	A. Proteins B. Minerals C. Oils D. Fatty acids
299	The temperature at which the speed of sound becomes double as was at 27°C is:	A. 273 °C B. 0 °C C. 927 °C D. 1027 °C
300	The rate of reaction between A and B increases by a factor orf 100, when the concentration with respect to A is increased 10 folds, the order of reaction w.r.t. A is	A. 1 B. 2 C. 4 D. 10
301	A ten-ohm electric heater operates on a 110 V line. Calculate the rate at which it develops heat in watts:	A. 1310 W B. 670 W C. 810 W D. 1210 W
302	Dehydration of glycerol give	A. Propane B. Propene C. Acrelein D. Benzene
303	The set (Z, +) forms group	A. from a group w.r.t addition B. Non commutative group w.r.t multiplication C. Form a group w.r.t multiplication D. Does not form a group
304	An object is placed at a distance of f/2 from a convex lens. The image will be	A. At one of the foci, virtual and double its size B. At, 3f/2 real and inverted C. At 2f, virtual and erect D. At f, real and inverted
305	Which of the following does not reflect the periodicity of elements?	A. Bonding behaviour B. Electronegativity C. Ionisation potential D. Neutron/proton ratio
306	Bernoulli's equation is based upoon law of conservation:	A. Mass B. Momentum C. Energy D. None of these
307	Which of the following statemetn is correct if the intermolecular forces in liquids A, B and C are in the order A <b<c?< td=""><td>A. B evaporates more readily than A B. B evaporates less readily than C C. A and B Evaporates at the same rate D. A evaporates more readily than C</td></b<c?<>	A. B evaporates more readily than A B. B evaporates less readily than C C. A and B Evaporates at the same rate D. A evaporates more readily than C
308	Which is not included in the domain of Cos ⁻¹ x	A. 0 B. 1 C1 D. 2
309	If 7 = (1 2) then 7-1 =?	A. (0.2,0.4) B. (-0.2,04)

		C. (0.2,-0.4) D. (-0.2,-0.4)
310	Which of the following is not present is RNA.	A. Uracil B. Thysine C. Ribose D. Phosphate
311	Light appears to travel in straight lines since	A. It is not absorbed by the atmosphere B. Its wavelength is very small C. Its velovcity is very large D. It is reflected by the atmosphere
312	What is the average energy of N molecules of monoatomic gas?	A. 1/2 NkT B. NkT C. 3/2 NkT D. 5/2 NkT
313	If $ heta=60^{ m o}$ then	A. sin □ = 1/2 B. tan □ = cot 30 C. □ = π/4 <cl>>c.>pse<□ =>pse<□ =4</cl>
314	Greater amount of nitrogen molecule derived from N ¹⁵ isotope The spectrum of helium is expected to be similar to that of	A. H <o:p></o:p> B. Li+ C. Na D. He+
315	The twinkling of stars is due to:	A. The fact that stars do not emit light continously B. The refractive index of the earth's atmosphere fluctuate C. Intermittent absorption of star light by its own atmosphere D. None of these
316	When sulphur is boiled with $\mbox{Na}_2\mbox{SO}_3$ solution , the compound formed is.	A. Sodium suphides B. Sodiums sulphates C. Sodium presulphate D. Sodium thiospulphate
317	The mid point of the line joining (-1,-3) to (3,-5) is	A. (1,-1) B. (1,1) C. (1,-4) D. (2,-8)
318	A certain current liberate 0.5 g of hydrogen in 2 h. How many grams of copper can be liberated by the same current flowing for the same time in a copper sulphate solution?	A. 12.7 gm B. 15.9 gm C. 31.8 gm D. 63.5 gm
319	A line segment whose end points lie on a circle is called.	A. The secant of the circle B. The arc of the circle C. The chord of the circle D. the circumference of the circle
320	White lead is	A. Basic lead acetate B. Acidic lead carbonate C. Basic lead carbonate D. Basic lead hydroxide
321	The thermal velocity of a small size spherical body of radius R moving in a fluid varies as:	A. R B. R ² C. 1/R D. (1/R) ²
322	If ab >0 and a<0 , which of the following is negative.	A. b Bb Ca D. (a-b) ²
323	In 30,60,90 triangle, if the smallest side is 6 then the side opposite to the angle of $60^{\rm o}$ is	A. 12 B. 3 C. 6√3 D. 6

324	π/3 is	A. A positive integer B. A negative integer C. A natural number D. An irrational number
325	If the order of A is nx m .then order of kA is	A. n x m B. m x n C. km x n D. m x kn
326	The isomers due to the unequal distribution of carbon atoms on either side of the functional group belonging to the same homologous series are called.	A. Functional isomers B. Position Isomers C. Chain Isomers D. Metamers
327	Which of the following has least mass?	A. 2 gram atom of nitrogen B. 3 x 10 ²³ atoms of C C. 1 mole of S D. 7.0 g of Ag
328	Corolls available in 5 models, 8 colors, and 3 sizes. How many corollas must a local dealer have on hand in order to have one of each kind available.	A. 24 B. 120 C. 16 D. 39
329	On heating acetaldehyde with ammonical silver nitrate solution, we.	A. CH2OH B. Silver acetate C. HCHO D. Silver mirror
330	The end points of the major axis of the ellipse are called its.	A. Foci B. Vertices C. Co-vertices D. eccentricity
331	The area of circle of unit radius=	A. 0 B. 1 C.
332	When KClO2 is heated, it decomposes into KCl and O2, If some MnO2 IS Added, the reaction goes much faster because.	A. MnO ₂ decomposes to give O ₂ B. MnO ₂ provides heat by reacting C. Better contact is provided by MnO ₂ D. MnO ₂ acts as a catalyst.
333	Graph of the equation $x^2 + y^2 = 4$ is	A. Circle B. An ellipse C. a parabola D. a square
334	A wire of radius r has resistance R. If it is stretched to a wire of r/2 radius, then the resistance becomes	A. 2R B. 4R C. 16 R D. Zero
335	Which of the following is a molecular discuss.	A. allorgy B. Cancer C. Sickle cell anemia D. Gernum meesles
336	Water is liquid while hydrogen sulphide is a gas because	A. Water has higher molecular weight B. Hydrogen sulphide is a weak acid C. Sulphure has high electronegativity than oxygen D. Water molecule associate through hydrogen bonding.
337	x is a member of the set {-1,0,3,5} y is a member of the set {-2,1,2,4} which is possible?	A. x-y = -6 B. x-y < ,6 C. x-y > -6 D. None
338	Which of the following alkali metal hydroxides is the strongest base?	A. Li OH B. NaOH C. KOH D. CaOH
339	Galena is an ore of	A. Gallium B. Lead C. Tin D. Germanium
340	Ascerbic acid is a chemical name of	A. Vitamin D B. Vitamin C C. Vitamin A D. Vitamin E

341	A relation in which the equality is true only for some values of the unknown variable is called	A. As identity B. As equation C. A polynomial D. Inverse function
342	The structure of XeF6	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
343	The magnetic moment of a circular coil carrying current is:	A. Directly proportional to the length of the wire in the coil B. Inversely proportional to the length of the wire in the coil C. Directly proportional to the square of the length of the wire in the coil D. inversely proportional to the square of the length of the wire in the coil
344	Two matrices A and B are comfortable for multiplication (AB) if and only if	A. Both all base the same number of columns B. Both A and B do not have the same order C. Number of set A is same and rows of B D. Number of row of A is same number of cool of B
345	$(x+2)^2 = x^1 + 4x + 4$ is	A. A linear equation B. A cubic equation C. A quadratic equation D. An equation for circle
346	The multiplicative inverse of -1 in the set {1,-1} is	A. 1 B1 C. □ <o:p></o:p> D0
347	What is the period of Cot x?	A. 2 π<0:p> B. <0:p> π<0:p> C. <0:p> π/2<0:p> D. <0:p> π/2<0:p> Cosp> Cosp> Cosp> D. <0:p>
348	Gooch crucible is used for the filtration of precipitates having.	A. High solubility B. High concentration C. High ignition temperature D. Low temperature
349	Complex roots of real quadratic equation occur in	A. Conjugate pair B. ordered pair C. reciprocal pair D. quadratic function
350	Al is more reactive than Fe but Al is less easily corroded than Fe because.	A. It is a noble metal B. Oxygen forms a protective reaction easily with water C. Iron undergoes reaction easily with water D. Fe form mono and divalent ions.
351	Hypo is used in photography ofr	A. Developing picture B. Picture printed C. The colour of picture D. The fixation of picture
352	Period of Sin 2x =	A. x B. 4 π<0:p> C. 2n π<0:p> D. 2 π<0:p>
353	A die is thrown what is the probability that there	A. 1/2 B. 1/3
	is a prime number on the top?	C. 1/6 D. 2/3
354	If the vector 2i +4j-2k and 2i-6j+ xk are perpendicular then x =	A. 4 B. 8 C. 14 D. 7
355	The stnadared deck of 52 cards is shuffled. What is the probability of cloosing the queen of the diamonds.	A. 1/5 B. 1/13 C. 5/52 D. 1/52
356	Which of the following elements is most electronegative?	A. Oxygen B. Chlorine C. Nitrogen D. Fluorine
357	How many difference arrangements of the letters in the words OARARA a are possible?	A. 720 B. 40

	ום ווו ווו שטועט מ מום איווו ווו פושום:	D. 30
358	Which of the following alcohols cannot be produced by treatment of aldehydydes or ketons with Nebh4 LiAH4	A. P2O2 B. H2SO4 C. CH3COONa D. CH2COOCH5
359	A person standing near the track of a fast moving train has tedency to fall towards it because of:	A. Viberation due to motion of train B. Gravitational force of attraction between person and trains C. The high speed of train D. Some other effect
360	$m{\varDelta}$ H $_{ ext{Naturalizationn}}$ is always	A. Positive B. Negative C. Zero D. Positive and Negative
361	There are 30 Red balls and 25 Green balls in a bag. If a ball is drawn from the bag randomly, what is the probability that a Blue ball comes out.	A. 1 B. 0 C. 0.5 D. None
362	The rate of a reaction that does not involve gases, does not depend upon	A. Pressure B. Temperature C. Concentration D. Catalyst
363	Sin x + Cos x = 1 x =	A. <o:p></o:p> π <o:p></o:p> B. <div> >/div><div>π/2</div><div> >/o:p></div> C. <o:p></o:p> π/3<o:p></o:p> D. <o:p> π/4<o:p></o:p> π/4<o:p></o:p></o:p></div>
364	The carbon atom is calcium carbide are held by	A. lonic bonds B. Sigma bonds C. 2 covalent, one co-cordinate bond D. 2 Sigma and one bond
365	With the propagation of a longitudinal wave through a material medium, the quantities transmitted in the propagation direction are:	A. Energy, momentum and mass B. Energy C. Energy and mass D. Energy and linear momentum
366	Which of the following process is used to separate insoluble particles from liquids?	A. Seperation B. Filtration C. Crystallization D. Condensation
367	Carbon monooxide is pollutant as it	A. Inactivates nerves B. luhibits glycolysis C. Combines with oxygen D. Combines with hemoglobin
368	If a statement $S(n)$ is true for $n = a$ and the truth of $S(n)$ for $n = K$ implies the truth of $S(n)$ true for all	A. All real numbers B. All Integer C. Positive integers D. All complex numbers
369	Variable valency is genereally exhibited by	A. Normal elements B. Transition elements C. Metallic elements D. None of these
370	Natural fertilizer provide potassium the form of K2O	A. 1.5 kg B. 3 kg C. 4.5 kg D. 6 kg
371	A prism splits a beam of white light into its seven constituent colors. This is so because:	A. Phase of different colors is different B. Amplitude of different colors is different C. Velocity of different colors is different D. Energy of different colors is different
372	Natural fertizer provide photosynthesis to plants in the from F2O3	A. 1.2 KG B. 2.3 KG C. 3.2 KG D. 4 KG
373	The osmotic pressure of solution increases if	A. Temperature in decreased B. Solution constant in increase C. Number of solute molecules are increased

374	Atmosphere of big/metropolitan cities is pothed most by	A. Automobile exhausts B. Pesticide residue C. Household wast D. radio active fill out
375	Mechanical waves on the surface of a liquid are:	A. Transverse B. Longitudinal C. Torsional D. Both transverse and longitudinal
376	The movement of solvent molecules through a semipermeable membrane is called.	A. Electrolysis B. Electrophoresis C. Osmosis D. Cataphoresis
377	The essential component of organic compound is .	A. O B. C C. P D. N
378	Which of the following substance is used as an antiknock compound.	A. Lead tetrachloride B. Lead acetate C. Ethyl acetate D. Tetraethyl lead
379	For production of beats the two sources must have	A. Different frequencies and same amplitude B. Different frequencies C. Different frequencies, same amplitude and same phase D. Different frequencies and same phase
380	Find the geometric means between 4 and 16	A. +-3 B. +-8 C. 1 D. 18
381	The contrast in the fringes in any interference pattern depends on	A. Fringe width B. Intensity ratio of the sources C. Distance between the slits D. Wavelength
382	The velocity of falling raindrops attains limited value because of:	A. Uop thrust air B. Viscous force exerted by the air C. Surface tension effect D. Air currents atmosphere
383	A fraction in which the degree of the numerator is less then the degree of the denominator is called.	A. Polynomial B. Proper fraction C. Rational fraction D. Mixed fraction
384	If 4 -x > 5, then	A. x>1 B. x>-1 C. x<-1 D. x<1
385	$Sin (2x - \theta) =$	A. Cos □ BSin □ C sin □ Dcos □
386	The graph of a quadratic function is	A. Circle B. Ellipse C. Parable D. Hexagon
387	To make the frequency double of an oscillator, we have to	A. Double the mass B. Half the mass C. Quadruple the mass D. Reduce the mass to one-fourth
388	Aldehydes are produce in atomospher by	A. Oxidation of secondary alcohols B. Reduction of alkenes C. Reaction of oxygen atoms with hydrocarbons D. Reaction of oxygen atoms with oxogen

A. Automobile exhausts

A. Should be expensive B. It should react chemically with the solute C. Should be safe to use D. Impurities should crystallize along with the solute A. Depends on the initial concentration of the reactants. B. Depends on the concentration of one of the products at equilibrium C. Does not depend on the initial concentrations of reactants D. Is not characteristic of the reaction A. Rational number B. Even number C. Irrational number D. Multiple of two numbdr A. 80 ^o During the folding of filter paper the apex form angle of about. A. Should be expensive B. It should react chemically with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Should be safe to use D. Impurities should crystallize along with the solute C. Does not depend on the initial concentration of one of the products at equilibrium C. Does not depend on the initial concentration of one of the products at equilibrium C. Does not depend on the initial concentration of one of the products at equilibrium C. Does not depend on the initial concentration. A. Rational number C. Irrational number C. Irrational number D. Multiple of two number D. Multiple of two number C. 180 ^{occupant of the products at equilibriu}	
The equilibrium constant in a reversible chemical reaction at a given temperature. B. Depends on the concentration of one of the products at equilibrium C. Does not depend on the initial concentrations of reactants D. Is not characteristic of the reaction A. Rational number B. Even number C. Irrational number D. Multiple of two numbdr A. 80 ^o B. 60 ^o C. 180 ^o D. 90 ^o D. 90 ^o D. 90 ^o	
B. Even number C. Irrational number D. Multiple of two numbdr 392 During the folding of filter paper the apex form angle of about. A. 80 ^o C. 180 ^o C. 180 ^o D. 90 ^o D. 90 ^o D. 90 ^o	
During the folding of filter paper the apex form angle of about. B. 60 ^o C. 180 ^o D. 90 ^o	
A. A = B B. A&ItB C. A&ItX D. B&ItY	
394 $P(x) = 2x^4 - 3x^3 + 2x - 1$ is polynomial of degree $A. 1$ B. 2 C. 3 D. 4	
395 The perpendicular bisector of any chord of a circle A. Passes through the centre of the circle. B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these	
396 If A and B are matrices such that AB = BA = i then A. A and B are multiplicative inverse of each other B. A and B are additive inverses of each other C. A and B are singular matrices D. A and B are equal	
A. An irrational number B. A whole number C. a positive integer D. A rational number	
398 Which of the following cannot be produced by acidic dehydration of alcohol? A. Ethers B. Aldehyds C. Alkyl Hydrogen sulphate D. Alkene	
A. 120 ^o B. 60 ^o C. 90 ^o D. 109 ^o D. 109 ^o	
A. Fog absorbs light B. They reflactive index of fog is infinity C. Light suffers total reflection at the droplet in a fog D. Light is scattered by the droplets in a fog	
401 In which molecule carbon atom is sp2 hybridized A. CH ₄ B. C ₂ H ₂ C. C₂+44 D. None of these above	
402 Leblanc process is employed in the manufacture of A. Baking soda B. Washing soda C. Potash D. Plaster of Paris	
The effect of increasing the pressure on the following equilibrium. A. Forward reaction is favoured B. Back ward reaction is favoured C. No effect D. None of the above	
A. Commutative law w.r.t multiplication B. Associative law w.r.t addition C. Distributive law w.r.t addition D. Multiplication of a scalar with the matrix	
A. 8 Number of elements present in the fifth period of periodic table is. A. 8 B. 10 C. 18 D. 32	

A. Increases as the reaction poceeds

406	For most of the chemical reactions the rate of reaction	B. Decreases as the reaction proceeds C. May increase or decrease during the reaction D. Remains constant as the reaction proceeds
407	If the angle between two vectors with magnitude 8 and 2 is 600 then their scalar product is	A. 12 B. 8 C. 1 D. 16
408	Acid rain produced by	A. Excess NO2 and SO2 from burning fossil fuel B. <a 11pt;="" 15.6933px;"="" calibri,="" font-family:="" font-size:="" href="https://doi.org/10.1001/j.com/pic/40/40/40/40/40/40/40/40/40/40/40/40/40/</td></tr><tr><td>409</td><td>With increasing principle quantum number , the energy difference between adjacent energy levels in H atom.</td><td>A. Decreases B. Increases C. Remain constant D. Decrease for low value of Z and increase for higher value of Z</td></tr><tr><td>410</td><td>White P when boiled with strong solution of caustic soda produces.</td><td>A. Phosphine B. Posh acid C. Phosphorous acid D. None</td></tr><tr><td>411</td><td>A chemical reaction A⇒ B is said to be in equilibrium when</td><td>A. Complete conversion of A to B has taken place B. Conversion of A to B is only 50% complete C. Only 10% conversion of A to B has taken place D. The rate of transformation of A to B is just equal to rate of transformation of B ato A on the system</td></tr><tr><td>412</td><td>SO2 and NO2 produce pollution by increasing .</td><td>A. Alkalinity B. Acidity C. Neutrality D. Buffer action</td></tr><tr><td>413</td><td>Carbon atom hooding halogen in aryl halides is.</td><td>A. Sp2 – hybridized B. sp3-Hybridesed C. sp-hybridesedsp-hybridesedsp3 - hybrideses
414	If Sin-1 X + CO-1 y = n , then x and y are.	A. Associative angles B. Complementary angle C. Reflex angles D. Supplementary angles.
415	For the carbylamine reaction we need bot atc. KOH and	A. A primary amine and chloroform <o:p></o:p> B. Any amin and chloroform C. chloroform and Ag powder D. A mono alkyl amine and trichlorom-ethane <o:p></o:p>
416	Phosphorus pentoxide finds use as	A. An oxidizing agen B. A reducing agen C. A bleaching agent D. A dohydrating agen
417	Which of the following is a colligative property?	A. Melting point B. Osmotic pressure C. Freezing point D. Sublimation temperature
418	Ozone is not	A. All allotrope B. A prowerful oxidizing agent C. Paramagnetic D. A bent molecule
419	Which is not a half plane	A. ax +by <c +by="" ax="" b.=""> c C. Both A and B D. None</c>
420	Which of the following metal exhibits more than one oxidation?	A. Na B. Mg C. Fe D. Al
421	Ball pen functions on the principle of:	A. Viscosity B. Boyle's law C. Gravitational force D. Surface tension

422	By using the fluted filter paper rate of filtration is.	A. Increased B. Decreased C. Filtration is constant D. Having no effect
423	Multiplicative inverse of "1" is	A. 0 B. 1 C. 3 D. (0,1)
424	The two difference parts of the hyperbola are called its.	A. Vertices B. Directrices C. Nappes D. Branches
425	At constant volume temperature is increased. Then	A. Collision on walls will be less B. Number of collisions per unit time will increase C. Collision will be in straight lines D. Collisions will not be chaged
426	Which of the following is a simple hormonic motion?	A. Wave moving through a string fixed at both ends B. Earth spinning about its own axis C. Ball bouncing between two rigid verticle walls D. Paticle moving in a circle with uniform speed
427	Which reaction sequence would be best to prepare 3- chloro- aniline from benzene.	A. Chlorination, nitration reduction B.
428	The reagent which forms crystalline diazone derivative when treated with glocose is.	A. Fehling solution B. Phoneyle hydration C. Besadiet solution D. Hydroxyl solution
429	Bleaching action of bleaching powder is due to the liberation of	A. O2 B. OCI- C. CI2 D. CI-
430	A vector of magnitude zero is called	A. Position vector B. Null vector C. Free vector D. None of these
431	If a salt bridge is removed between the two half cells, the voltage.	A. Drops to zero B. Does not change C. Increases gradually D. Increases repidly
432	If c is a constant number and if f is the function defined by the equations $f(x) = c$ for all values of x then f is differentiable at every x and f is defined by the equation $f(x) =$	A. f B. 1 C. C D. 0
433	If yellow light emitted by sodium lamp in Young's double slit experiment is replaced by monochromatic blue light of the same intensity	A. Fringe width will decrease B. Fringe width will increase C. The fringe width will remain unchaged D. Fringes will become less intense
434	One mole of a gas refers to	A. The numebr of molecules in one litre of gas B. The numeber of molecules in one gram of gas C. The number of molecules contained in 12 grams of ¹² C isotopes D. The number of molecules in 22.4 litres of a gas at S.T.P.
435	A sunrise or sun set, the sun looks reddish because :	A. The sun is coldest at these times B. Of the effects of reflection and refraction C. The sun is hottest at these times D. Of the scttering of light
436	Which of the following units represents largest amount of energy?	A. Calorie B. Joule C. Erg D. Electron vol
437	Which of the following possesses the highest melting point?	A. o-Dichlorobenzene B. Chlorobenzene C. m-Dichlorobenzene D. p- Dichlorobenzene

438	Alum is not used	B. As an insecticide C. In purification of water D. In tanning of leather
439	Iron, once dipped in concentrated H2SO4, does not displace copper from copper sulphates solution, because.	A. It is less reactive than copper B. A layer of sulphates is deposited on it<0:p>D. All valence electrons of iron are consumed
440	The constant distance of all points of the circle from its centre is called the	A. Radius of the circle B. Secant of the circle C. Chord of the circle D. Diameter of the circle
441	Which of the following has linear shape?	A. SP B. SP3 C. SP2 D. None of these above
442	Which of the following is the subset of all acts	A. □ <o:p></o:p> B. {1,2,3} C. {□} <o:p></o:p> D. {0}
443	How many moles of Helium gas occupy 22.4 L at 0 $^{ m oC}$ at 1 atm pressure?	A. 0.11 B. 0.90 C. 1.0 D. 1.11
444	Sulphur dioxide affects	A. Cell wall B. Plasmodesmata C. All membrane systems D. Nucleus
445	If $Cos\theta = 0$, then $\theta =$	A. nπ/2 B. (2n+1)π/2 C. (2n-1)π/2 D. (n+1)π/2
446	Total number of terms int he expansion of (a+b)n +(a-b) 5 after simplification are.	A. 3 B. 4 C. 1 D. 7
447	Which of these is the most widely used nitrogen fertilizer is pakistan.	A. Urea B. Ammonium nitrate C. Ammonium sulphate D. Ammonium cholride
448	A zero order reaction is one whose rate is independent of.	A. Temperature of the reaction B. The concentration of the reactants C. The concentration of the products D. The material of the vessel in which the reaction is carried out
449	The two consecutive positive integers whose product is 56 are.	A. 7,8 B. 14,4 C. 28,2 D. 56,1
450	Helium oxygen mixture is used by deep sea divers in preference to nitrogen oxygen mixture because.	A. Helium is much less soluble in blood than nitrogen<0:p> p> B. Nitrogen is highly soluble in water C. Under the sea nitrogen and oxygen react to give poisonous nitric oxide D. Nitrogen is much less soluble in blood than helium<0:p>
451	A cell constant is generally found by measuring the conductivity of aqueous solution of.	A. BaCl ₂ B. KCl C. NaCl D. MgCl ₂
452	If A is a vector along x-axis its component along y-axis is.	A. A B. 0 C. Unit vector D. Cross vector
453	$F(x) = X^{X}$ decreases in the interval	A. (0,e) B. (0,1) C. (-0,-1) D. None

ם. ושטווכ

A Functional group			
455 staince R attract cach other with a force of 12 kg N charges on them are doubled and distance is halved. 456 According to stoke's law, drag force depends on: 457 The value of n such that, in the binorial expansion of (1-x)n, coefficient of x² is 3 are. 458 When electrons revolve in stationary orbits. 459 Inter molecular force in solid hydrogen are difference is 5, are 450 Two natural numbers whose sum is 25 and difference is 5, are 450 Two natural numbers whose sum is 25 and difference is 5, are 451 The number of roots in cube roots of 8 is 20.0 b. There is increases in energy 452 A 2 2 0 b. There is increases in energy 453 The number of roots in cube roots of 8 is 20.0 b. There is not change in energy level 454 The number of roots in cube roots of 8 is 20.0 b. There is not change in energy level 455 A 2 2 0 b. There is more season in energy level 456 The number of roots in cube roots of 8 is 20.0 b. C. 20.5 b. There is not change in energy level 457 The number of roots in cube roots of 8 is 20.0 b. C. 20.5 b. There is not change in energy level 458 The number of roots in cube roots of 8 is 20.0 b. C. 20.5 b. There is not change in energy level 459 The number of roots in cube roots of 8 is 20.0 b. C. 20.5 b. There is not change in energy level 460 The number of roots in cube roots of 8 is 20.0 b. C. 20.5 b. The number of roots in cube roots of 8 is 20.0 b. C. 20.5 b. The number of roots in cube roots of 8 is 20.0 b. C. 20.5 b. The number of roots in cube roots of 8 is 20.0 b. There is no change in energy level 461 The sample a 10°-cs 180° measured in the mind reduced in the photography of the roots and in roots are also an one-horizontal straight lines I is called. 462 A 10° measure up to 27.1 liw want to increase is law will be a change of 10° measure up to 27.1 liw want to increase is law will be a change of 10° measure up to 27.1 liw want to increase is law will be a change of 10° measure up to 27.2 liw want to increase is 10° measure up to 27.2 liw want to increase is 10° measure up to	454		B. Position isomerism C. isomerismMetamerism
A contained to stoke's law, drag force depends on the contained of the c	455	distance R attract each other with a force of 12 \times 10 ⁻³ N.The force between A and B when the charges on them are doubled and distance is	B. 19.2 N C. 12 N
### The value of n such that, in the binomial expansion of (1-xin, coefficient of x² is 3 are. ### The value of n such that, in the binomial expansion of (1-xin, coefficient of x² is 3 are. ### There is no change in energy level ### There is no change is energy ### There is no change in energy level ### There is no change in energy level ### There is no change is energy ### There is no change in energy ### There is no change is e	456	According to stoke's law, drag force depends	B. Final velocity C. Terminal velocity
458 When electrons revolve in stationary orbits. 5. They become stationary C. The are gaining kinetic energy D. There is increase in energy C. They are gaining kinetic energy D. There is increase in energy C. They drope hords D. All of these C. Hydrogen hords D. All of these C. Pour D. Infinite C. Four D. Hydrogen C. Four C. Hydrogen C. Four D. Hydrogen C. Hydrogen C. Hydrogen C. Hydrogen C. Hydrogen C. They produce sounds of equal intensity B. They produce sounds of equal intensity C. They produce sounds waves whertaing with the same phase D. They produce sounds waves whertaing with the same phase C. They produce sounds waves whertaing with the same phase C. They produce sounds waves whertaing with the same phase C. They produce sounds waves whertaing with the same phase C. They produce sounds waves whertaing with the same phase C. They produce sounds for equal intensity C. They produce sounds contained the same phase C. They produce sounds contained the same phase C. They produce sounds for the same phase C. They produce sounds waves whertaing with the same phase C. They produce sounds for the same phase C. They pro	457		B. 2,-3 C2,3
A point charge Q is placed at the end mid-point of a line joining two charges, 4g and q if the new local artifaction counterclockwise from positive x- axis to a non-indizonal straight lines I is called. A volumeter has resistance of 2000 ohms and if can measure up to 2V. If we want to increase is range to 10 V then required resistance in series will be: A fly is sitting on the objective of a telescope pointed towards the motion. What affect is expected in the photography of the meon taken through the telescope? A moving charge will gain energy due to the application of: A fly is sitting on the objective of a telescope pointed towards the motion. What affect is expected in the photography of the meon taken through the telescope? A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of the source of the pointed towards the motion. What effect is expected in the photography of the moon taken through the telescope? A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the applic	458	When electrons revolve in stationary orbits.	B. They become stationary C. The are gaining kinetic energy
460 Two natural numbers whose sum is 25 and difference is 5, are 461 The number of roots in cube roots of 8 is 462 A point charge Q is placed at the end mid-point of a line joining two charges, 4g and q. if the net force on charge q is zero, then Q must be equal to: 463 The angle a (0° <a<180°) +4q="" -2="" 10="" 18<="" 2000="" 2v.="" 464="" 465="" 466="" 467="" 468="" 469="" a="" and="" are="" be="" be:="" can="" coherent="" d.="" does="" effect="" expected="" fly="" following="" form="" halogens="" has="" if="" if:="" in="" increase="" is="" it="" its="" lesscope?="" measure="" measured="" meter="" moon="" motion.="" not="" o="" objective="" of="" ohms="" on="" own="" oxyacids?="" photography="" pointed="" q="" range="" required="" resistance="" said="" series="" sitting="" sound="" source="" sources="" taken="" td="" telescope="" the="" then="" through="" to="" to:="" towards="" two="" up="" v="" volt="" want="" we="" what="" which="" will=""><td>459</td><td>Inter molecular force in solid hydrogen are</td><td>B. Vander Waal forces or Londdon dispersion forces C. Hydrogen bonds</td></a<180°)>	459	Inter molecular force in solid hydrogen are	B. Vander Waal forces or Londdon dispersion forces C. Hydrogen bonds
### A volt meter has resistance of 2000 ohms and it can measure up to 2V. If we want to increase its range to 10 V then required resistance in series will be: ### A fly is sitting on the objective of a telescope pointed towards the motion. What effect is expected in the photography of the helescope? ### A moving charge will gain energy due to the application of: ### Which of the following halogens does not form its oxyacids? ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A fly is sitting on the following halogens does not form its oxyacids? ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will gain energy due to the application of: ### A moving charge will application of:	460		B. 20,10 C. 20,5
462 of a line joining two charges, 4g and q, if the net to: C2q D. +4q 463 The angle a (0° <a<180°) a="" axis="" called.<="" counterclockwise="" from="" is="" lines="" measured="" nonhorizontal="" positive="" straight="" t="" td="" to="" x-=""> A. Rotation B. Inclination C. Radian D. None 464 Two sources of sound are said to be coherent if: A. They produce sounds of equal intensity B. They produce sounds of equal intensity B. They produce sounds waves with zero or constant phase difference all instant of time 465 A volt meter has resistance of 2000 ohms and it can measure up to 2V. If we want to increase its range to 10 V then required resistance in series will be: A 2000Ω < √span > B. 4000Ω < √span > B. 4000Ω < √span > B. 4000Ω < √span > B. 4000Ω < √span > B. 4000Ω < √span > B. 4000Ω < √span > B. 4000Ω < √span > B. 4000Ω < √span > B. 4000Ω < span > B. 4000<span 10="" 2000="" 2v.="" <a<180")="" a="" and="" application="" are="" b.="" be="" be:="" called.="" can="" charge="" coherent="" counterclockwise="" does="" due="" effect="" energy="" exist="" expected="" fly="" following="" form="" from="" gain="" halogens="" has="" i="" if="" if:="" in="" increase="" integer.="" integer.<="" irrational="" is="" it="" its="" lines="" measure="" measured="" meter="" moon="" motion.="" moving="" negative="" non-horizontal="" not="" number="" objective="" of="" of:="" ohms="" on="" oxyacids?="" photography="" pi="" place="" pointed="" points="" positive="" range="" required="" resistance="" said="" series="" sitting="" sound="" sources="" specific="" straight="" syle="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size:</td><td>461</td><td>The number of roots in cube roots of 8 is</td><td>B. One
C. Four</td></tr><tr><td>The angle a (0" taken="" td="" telescope="" telescope?="" the="" then="" through="" to="" towards="" two="" up="" v="" volt="" want="" we="" what="" will="" x=""><td>462</td><td>of a line joining two charges, 4q and q. If the net force on charge q is zero, then Q must be equal</td><td>B. +q C2q</td></a<180°)>	462	of a line joining two charges, 4q and q. If the net force on charge q is zero, then Q must be equal	B. +q C2q
Two sources of sound are said to be coherent if: B. They produce sounds of equal frequency C. They produce sounds waves with the same phase D. They produce sounds waves with zero or constant phase difference all instant of time	463	counterclockwise from positive x- axis to a non-	B. Inclination C. Radian
A volt meter has resistance of 2000 ohms and it can measure up to 2V. If we want to increase its range to 10 V then required resistance in series will be: 466 A fly is sitting on the objective of a telescope pointed towards the motion. What effect is expected in the photography of the moon taken through the telescope? A moving charge will gain energy due to the application of: A moving charge "color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;" Ω < /span> A The entire field of view blocked B. There is no effect at all D. There is no effect at all E Magnetic field C. Both of these A Fluorine B. Chlorine C. Bromine D. Iodine A An irrational number	464		B. They produce sounds of equal frequency C. They produce sounds waves viberating with the same phase D. They produce sounds waves with zero or constant phase difference all instant of
pointed towards the motion. What effect is expected in the photography of the moon taken through the telescope? A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: A moving charge will gain energy due to the application of: B Magnetic field C Both of these D None of these B Chlorine C Bromine D lodine A An irrational number B A negative integer C A rational number	465	can measure up to 2V. If we want to increase its range to 10 V then required resistance in series	small;"> Ω B. 4000 Ω C. 6000Ω D. 8000Ω D. 8000Ω
A moving charge will gain energy due to the application of: B. Magnetic field C. Both of these D. None of these A. Fluorine B. Chlorine C. Bromine D. lodine 469 0 IS A. An irrational number B. A negative integer C. A rational number	466	pointed towards the motion. What effect is expected in the photography of the moon taken	B. There is an image of the fly on the photography C. There is no effect at all
Which of the following halogens does not form its oxyacids? B. Chlorine C. Bromine D. lodine A. An irrational number B. A negative integer C. A rational number	467		B. Magnetic field C. Both of these
469 0 IS B. A negative integer C. A rational number	468		B. Chlorine C. Bromine
	469	0 IS	B. A negative integer C. A rational number

470	Dilute hydrochloric acid solution cannot be concentrated by boiling beyond.	A. 11% B. 33% C. 22% D. 44%
471	Heating a mixture of sodium benzoate and soda lime gives.	A. Methane B. Benzene C. Sodium benzonate D. Calcium benzoate
472	A farmer possesses 100 hectometers of land and wants to grow corn and wheat. Cultivation of core requires 3 hours per hectometer while cultivation of wheat requires 2 hours per hectometer. Working hours cannot exceed 240. If he gets a profit of Rs.20 per hectometer for corn and Rs.15 per hectometer for wheat. The profit function for the former is .	A. $P(x-y) = 20 \times +15 y$ B. $P(x,y) = 2y + 3y$ C. $P(x,y) = x + y$ D. $P(x,y) = 3 \times + 2y$
473	If $Sin\theta = 3/5$ then $Cos\theta$	A. 1/2 B. 2/3 C. 4/5 D. 1
474	The number of atoms in 0.004 g of magnesium is close to	A. 24 B. 2 x 10 ²⁰ C. 10 ²⁰ D. 6.02 x 10 ²⁴
475	Among the alkaline earth metals the element forming predominantly covalent compounds is.	A. Be B. Mg C. Sr D. Calcium
476	Which of the following statement regarding catalyst is not true?	A. A catalyst remains unchanged in composition and quantity at the end of the reaction B. A catalyst can initiate a reaction C. A catalyst does not alter the equilibrium in a reversible reaction D. Catalysts are sometimes very specific in respect of reaction.
477	In crystal structure of sodium chloride, the arrangement of CT ions is .	A. Fee B. bcc C. Both fee and bcc D. Nothe of these