

MATHS

| S.NO | Question | Answer | DETTAIL SOLUTIO N |
|------|--|---|-------------------------|
| 1 | If Sin A + Sin B = a and | $\frac{b^2 - a^2}{a^2 + b^2}$ | |
| 2 | The value of tan 15° | 4 | |
| 3 | The general value of θ | $n\pi - (-1)^n \frac{\pi}{6}, n \in I$ | |
| 4 | In a triangle ABC if | $\sqrt{3}$ unit | |
| 5 | The value of tan $\left(\frac{1}{2}\cos^{-1}\frac{\sqrt{5}}{3}\right)$ | $\frac{3-\sqrt{5}}{2}$ | n J |
| 6 | An aeroplane is hori. | $2\left(\frac{\sqrt{3}-1}{\sqrt{3}}\right) \text{km}$ ERTS GUIDE YOU TO WIN | 1 |
| 7 | Equation of a line which passes through | $X \sec \theta + y \cos ec \theta = a$ | |
| 8 | The equation of pair of straight lines | $bx^2 - 2hxy + ay^2 = 0$ | |
| 9 | The value of 'a' for which the lines | -3 | |
| 10 | For two circle, if the distance between their | 3 | |
| 11 | If Y= x+a is tangent to the parabola | 2 | |
| 12 | If the line ax +4y = 36 is tangent to the | $\pm 2\sqrt{5}$ | |

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| 13 | Angle between tangents drawn | $\frac{\pi}{2}$ | |
|----|--|--|--|
| 14 | The angle between the asymptotes of the | $2\tan^{-1}\left(\frac{b}{a}\right)$ | |
| 15 | If the foci the ellipse $\frac{x^2}{16} + \frac{y^2}{b^2} = 1 \dots$ | 7 | |
| 16 | The locus of the middle point | $x^2 + y^2 = 8$ | |
| 17 | Centre of the conic | (1,2) | |
| 18 | Direction ratio's of the line | $b_1c_2 - c_1b_2, c_1a_2, a_1b_1 - b_1a_2$ | |
| 19 | The co-ordinates of a point in the | (0,0,0) | |
| 20 | The yz plane divides the line segment | 2:3 | |
| 21 | If the plane x + ay + z = 5 has | 1 | |
| 22 | If the sum of squares of distance of a point from | $x^2 + y^2 + z^2 = p^2$ | |
| 23 | Distance of the plane | 4/3 | |
| 24 | Angle between the lines | $\cos^{-1}\left(\frac{8}{9}\right)$ | |
| 25 | If a and b are unit | $\sin\frac{\theta}{2} = \frac{1}{2} a-b $ | |
| 26 | The unit vector which is | $\frac{-3i+5j+11k}{\sqrt{155}}$ | |
| 27 | If op = $x_1i + y_1j + z_1k$ | $\frac{x_2 - x_1}{PQ}, \frac{y_2 - y_1}{PQ}, \frac{z_2 - z_1}{PQ}$ | |

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| 28 | Direction of a reciprocal vector | None of these | |
|----|--|---|--|
| 29 | The moment of force | $\hat{i}-2\hat{j}+\hat{k}$ | |
| 30 | If $\vec{a} = \vec{b} + \vec{c}$, then | 0 | |
| 31 | A force $\vec{F} = 2\hat{i} - 3\hat{j} + \hat{k}$ is acting at a point | 4 units | |
| 32 | If a and b are the position vector | 2 | |
| 33 | | $x \in (1,2)$ | |
| 34 | Domain and Range are | Identity function | |
| 35 | If $f(x) = \frac{1+x}{1-x}$, then the value | $-\frac{1}{x}$ | |
| 36 | The value of | e^2 | |
| 37 | If the function f (x) = | a = 1, b = 3 | |
| 38 | For what value of m, the function | m>1 | |
| 39 | If $x^2 + y^2 = t = \frac{1}{t}, x^4 + y^4 =$ | $\frac{1}{x^3y}$ | |
| 40 | If $(\cos x)^y = (\sin y)^x$, then | $\frac{\log_{e}(\sin y) + \tan x}{\log_{e}(\cos x) - x \cot y}$ | |
| 41 | If a particle is moving in a straight | 2 < t < 5 | |
| 42 | The function 3 sin x-4 sin/ | $=\frac{\pi}{6} < x < \frac{\pi}{6}$ | |

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| 43 | The height of a cylinder of maximum | $\frac{2a}{\sqrt{3}}$ units | |
|----|---|--|--|
| 44 | For the function | $2 \pm \frac{1}{\sqrt{3}}$ | |
| 45 | $\int \sqrt{e^x - 1} dx \text{is equal}$ to | $2[e^{x} - 1 + \cot^{-1} \sqrt{e^{x} - 1}] + c \text{ or}$ $2[e^{x} - 1 - \tan^{-1} \sqrt{e^{x} - 1}] + c$ | |
| 46 | $\int \frac{1}{5 + 4\cos x} dx \text{ is equal}$ to | $\frac{2}{3}\tan^{-1}\left(\frac{\tan(x/2)}{3}\right) + C$ | |
| 47 | $\int \frac{x^2 + 1}{x^4 + x^2 + 1} dx \text{ is equal to}$ | $\frac{1}{\sqrt{3}}\tan^{-1}\left(\frac{x^2-1}{\sqrt{3}x}\right)+c$ | |
| 48 | The value of | $\frac{4}{e}$ | |
| 49 | Value of $\int_{-1}^{1} e^{ x } dx$ is | 2(e-1) | |
| 50 | The value of $\int_0^{2\pi} \frac{x \sin^{2n} x}{\sin^{2n} x + \cos^{2n} x}$ | π^2 | |
| 51 | If $\int \frac{x \tan^{-1} x}{\sqrt{1+x^2}} dx = \dots$ | A= 1, b= -1 | |
| 52 | $ \int \!\! \left[\frac{e^{5\log_e x} - e^{4\log_e x}}{e^{3\log_e x} - e^{2\log_e x}} \right] \ dx \ is $ equal to . | $\frac{x^3}{3}$ +c | |
| 53 | The area bounded by the curve y= 4x(x-1) (x-2) | 2sq. units | |
| 54 | The area bounded by the curve $y = x - 1$ and $- x + 1$ is | 2 sq. units | |

| 55 | The differential equation of rectangular hyperbola | | |
|----|--|--|--|
| 56 | The differential equation of family of circles | $\left[1 + \left(\frac{dy}{dx}\right)^2\right]^3 = a^2 \left[\frac{d^2y}{dx^2}\right]^2$ | |
| 57 | Degree of the differential equation $\left(\frac{d^2y}{dx^2}\right)^{3/2} + x^2 \left(\frac{dy}{dx}\right) = e^x$ is | 3 | |
| 58 | The order of the differential equation $\frac{d^2y}{dx^2} - 5\left(\frac{dy}{dx}\right)^{7/2} = \sin x,$ | 2 | |
| 59 | Solution of the differential equation $\frac{dy}{dx} = (4x + y + 1)^2$ | $\frac{1}{2} \tan^{-1} \left(\frac{4x + y + 1}{2} \right) = x + c$ | |
| 60 | Solution of the differential equation $e^{-x+y} \frac{dy}{dx} = 1$ | $e^{y} = e^{x} + c$ | |
| 61 | Solution of the differential equation $\frac{dy}{dx} = \frac{y}{x} + \sin\left(\frac{y}{x}\right) \text{is }$ | | |
| 62 | Solution of the differential equation $\frac{dy}{dx} = \frac{x+y+1}{2x+2y+3}$ | $6y - 3x + \log(3x + 3y + 4) = c$ | |
| 63 | Integrating factor of the differential equation x | log x | |

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| 64 | A bag contain 3 white | 5:9 | |
|----|--|---|----------------------|
| 65 | A, B and C are parti | 257/320 | |
| 66 | In a single throw of two | 5/9 | |
| 67 | A and B are independent event | 1/3 | |
| 68 | The number of minimum series | 2 | |
| 69 | The standard deviation of th | | No option is correct |
| 70 | If the correlation coefficient is zero | Perpendicular | |
| 71 | The order of convergence of. | 2 | |
| 72 | First approximate solution of | 2.05 | |
| 73 | Using false position method, the | (2, 3) | |
| 74 | Using Bisection method the | [0,1] | |
| 75 | In Simpson's 1/3 rule the | Even | |
| 76 | For the following data: | 5.05 | |
| 77 | In Trapezoidal rule the | Straight line | |
| 78 | Which one of the following represent the Simpson's | $\int_{x_0}^{x_0+nh} y dx \Box$ $h \left[\frac{1}{3} (y_0 + y_n) + \frac{4}{3} (y_1 + y_3 + \dots + y_{n-1}) + \frac{2}{3} (y_2 + y_4 + \dots + y_{n-2}) \right]$ | |
| 79 | The objective function of a Linear | A polynomial | |

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| | Programming | | |
|----|---|---------------------------------|--|
| 80 | The main parts of linear | 2 | |
| 81 | The optimal solution of the linear | X = 20, y = 30 | |
| 82 | In solving the linear programming problem | Convex set of feasible solution | |
| 83 | The smallest positive integer | 4 | |
| 84 | If $\frac{2z_1}{3z_2}$ is purely number | 1 | |
| 85 | If complex number z_1, z_2 and o are | mber 0 | |
| 86 | The amplitude of | $\frac{\pi}{6}$ | |
| 87 | $\log_3 2$, $\log_6 2$ | HP | |
| 88 | If a,b,c are Harmonic | $\frac{3}{b^2} - \frac{2}{ab}$ | |
| 89 | If x be real, then the maximum value | 41 | |
| 90 | If α , β are the roots | 1 | |
| 91 | ⁴⁷ C ₄ + | $^{52}\mathrm{C}_4$ | |
| 92 | Total number of ways in which | 35 | |
| 93 | The middle term in the | 252 | |
| 94 | If $\log_5(3x-1) < 1$, then | $\left(\frac{1}{3},2\right)$ | |
| 95 | If $ax^3 + bx^2 + cx + d =$ | -1 | |

| 96 | If the system of equation | 2 | |
|-----|---|-----------------------|--|
| 97 | For a square matrix A = | Skew symmetric matrix | |
| 98 | If the value of a third order determinant | 256 | |
| 99 | The range of the trigonometric function sec x | R – (–1,1) | |
| 100 | The valye of $\frac{\cos(90^{\circ} + \theta)}{\sec(360^{\circ} - \theta)}$ | -1 | |

PHYSICS

| S.NO. | Question | Answer | DETTAIL SOLUTION |
|-------|---|-----------------|--|
| 101 | A piece of ice | Will not change | |
| 102 | Difference between the internal and external | 2T r | $P_2 - P_1 = \frac{2T}{R}$ |
| 103 | Two identical solid spheres | $\rho^2 r^4$ | $F = \frac{GM_{1}M_{2}}{(R)^{2}} = \frac{G(\rho \frac{4}{3}\pi r^{3})(\rho \frac{4}{3}\pi r^{3})}{(2\pi)^{2}}$ |

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| 104 | An ideal gas has pressure | $P = \frac{2}{3}E$ | $PV = \frac{1}{3} \eta m v_{rms}^{2}$ $pv = \frac{2}{3} \left(\frac{1}{2} \eta m v_{rms}^{2} \right)$ |
|-----|---|---|---|
| 105 | An iron needle floats on the | Surface tension | |
| 106 | Work done in an isothermal | On both the temperature and volume expansaion ratio | $W = nRT \ln \left(\frac{v_2}{v_1} \right)$ |
| 107 | The ratio of the coefficient of thermal | 5:3 | $R = \frac{L}{KA}$ $R = same ; L = same :: \frac{l_1}{l_2} = \frac{k_1}{k_2} = \frac{5}{3}$ |
| 108 | The refractive index of the material of a con | 24 cm | (c) $\frac{1}{f} = \left(\frac{\mu - l}{l}\right) \left(\frac{l}{R_1} - \frac{l}{R_2}\right)$ $= \frac{1.5 - l}{l} \cdot \left(\frac{l}{20} + \frac{l}{30}\right)$ $= \frac{0.5 \cdot \left(\frac{30 + 20}{600}\right)}{89 \times 0.5}$ $f = \frac{669}{89 \times 0.5} = \frac{120}{5}$ $f = 24 \text{ cm}$ |
| 109 | Two thin lenses are kept in conduct | 30 cm | |
| 110 | A convex and a concave lens of | erect and of same size as the object | $\frac{1}{f_{eff}} = \frac{1}{f_1} + \frac{1}{f_2}$ $= \frac{1}{(+10)} + \frac{1}{(-10)} = 0$ $\Rightarrow \text{ Combination will behave as a glam slab image will be chart and of the same size as the object}$ |

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| | | | And $\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$ $\frac{1}{(nu)} - \frac{1}{u} = \frac{1}{f}$ $\left(\frac{n-1}{n}\right)f$ $u = \frac{f(n-1)}{n}$ |
|-----|---------------------------------|----------------------|---|
| 112 | the magnifying power of com | 4 | $m = m_0 m_e$ $m_e = \frac{m}{m_0} = \frac{32}{8} = 4$ |
| 113 | in young's experiment the | I = 4 I ₀ | $I = I_1 + I_2 + \sqrt{I_1 I_2} \cos \varphi$ At central fringe $I_{max} = 4I$ In problem $I = I_0$ |
| 114 | in an experiment of diffraction | increase | $\beta = \frac{2\lambda D}{d}$ $B\alpha \frac{1}{d}$ If d decreased β increase |
| 115 | in the diffaction of light of | $\frac{\lambda}{d}$ | $d \sin \theta = nd$ $d \sin \theta = \lambda \text{ (for 1}^{st} \text{ min }$ $\Rightarrow \theta = \frac{\lambda}{d}$ Angular width of central |

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| | WITTET 2010 ANOWER RET & OCCOTIONS | | | |
|-----|--|---|--|--|
| | | | $Maxima = \frac{2\lambda}{d}$ | |
| | | | So half of angular width = $\frac{\lambda}{d}$ | |
| 116 | electrical resistance of a piece | semi-conductor | $\rho = \rho_0 \left(1 + \alpha \Delta \theta \right)$ $\alpha = \text{is +ve for conductors}$ $\alpha = \text{is -ve for semi conductors}$ | |
| 117 | depletion layer at | both positive and negative immobile charges | P N hhh G G e e e hhh G G e e e hhh G G e e e be be e e e Depletion layers contains both positive and negative immobile charges | |
| 118 | electric field strength due to a | $E = \frac{1}{2\pi\varepsilon_0} \frac{p}{r^3}$ | $E = \frac{2 + P}{h^3} = \frac{1}{2\pi \epsilon_0} \cdot \frac{P}{h^3}$ | |
| 119 | stored electrostatic energy in | $u = \frac{Q^2}{2C}$ | $u = \frac{Q^2}{2C}$ | |
| 120 | A parallal plate capacitor | 44 pF;211.2pF | | |
| 121 | each resistance in the given | R | For balanced wheatstone bridge $R_{AB} = R$ | |

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| 122 a galvanor of resiste | | $R = 480\Omega$ | $V = i_g (R_g + R)$ $\Rightarrow 3 = 6 \times 10^{-3} (20 + R)$ $\Rightarrow R + 20 = 0.5 k\Omega = 500 \Omega$ $\Rightarrow R = 480 \Omega$ | |
|---------------------------------------|--------------------------|---|--|--|
| 123 open potentia | circuit I | elctromotive force | Open terminal voltage is called electro motive force | |
| 124 when capacito | a r of | $Q(t) = Q_{max} \left(1 - e^{-t/RC} \right)$ | $Q(t) = Q_{\text{max}} \left(1 - e^{-t/RC} \right)$ | |
| 125 a hea marked ! | iter is 500w | 30 paisa | Consumed = P X t = $500 \times 4 \times 3600$ = 72×10^5 Joule Unit consumed = 2 kwh Cost = $2 \times 15 = 30$ paisa | |
| the ma | agnetic | $\frac{\mu_0}{4\pi} \frac{Id\vec{l} \times \vec{r}}{r^3}$ | $\frac{\mu_0}{4\pi} \frac{Id\overrightarrow{1} \times \overrightarrow{r}}{r^3}$ Biot savarat law | |
| in a volta | | electro –chemical equivalent | m=z.q z= electro -chemical equivalent | |
| force experien by charg | ced | $\overrightarrow{\mathbf{F}} = q[\overrightarrow{\mathbf{E}} + (\overrightarrow{\mathbf{v}} \times \overrightarrow{\mathbf{B}})]$ | $\overrightarrow{\mathbf{F}} = q[\overrightarrow{\mathbf{E}} + (\overrightarrow{\mathbf{v}} \times \overrightarrow{\mathbf{B}})]$ | |
| 129 the mar of electri | | Charge of the particle | | |
| 130 Pick state that is for a semicone | correct p-type | Density of minority carriers depends on temperature | | |
| 131 Pick isobars the follow | mirror from wing : | ${}_{7}N^{15}, {}_{8}O^{15}$ | $_{7}N^{15},_{8}O^{15}$ | |
| | | | | |

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| | sound in air is 332 m/s | | |
|-----|---|---|---|
| 133 | Dimensional formula for boltzman | $[ML^2T^{-2}\theta^{-1}]$ | $[ML^2T^{-2}\theta^{-1}]$ |
| 134 | Select the pairs which have same | Torque and wok | |
| 135 | Frequency f of oscillations of a mass | $x = -\frac{1}{2}, y = \frac{1}{2}$ | $x = -\frac{1}{2}, y = \frac{1}{2}$ |
| 136 | A Force $\overrightarrow{F} = (5 \overrightarrow{i} + 3 \overrightarrow{j})$ newton | 7 Joules | |
| 137 | A simple pendulum is hanging from the | $\theta = \tan^{-1} \left(\frac{a}{g} \right)$ | |
| 138 | A motor car is moving on a straight horizontal road | 50 m | 50 m |
| 139 | A cylinder rolls up an inclined plane, reaches some | Up the incline while ascending and descending | |
| 140 | A assuming that the coefficient of friction | 20 m/s | $v = \sqrt{\mu rg} = 20 \text{m/s}$ |
| 141 | For a body moving in a horizontal | Kinetic energy | |
| 142 | For a geostationary | π/12 | $\omega = \frac{2\pi}{T} = \frac{2\pi}{24}$ |

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| 143 | A body is moving in a circular, | 16 a | $a = \frac{v^2}{r}$ If velocity becomes 4 times than a will be 16 times |
|-----|---|----------------------------------|--|
| 144 | The circular motion if a particle | Periodic but not simple harmonic | For SHM F∞-x |
| 145 | The moment of linear momentum | Angular momentum | Angular momentum is momentum of linear momentum |
| 146 | The moment of inertia of a uniform | $\frac{3}{2}MR^2$ | $I = I_{cm} + MR^2$ $= \frac{1}{2}MR^2 + MR^2$ |
| 147 | The equation of motion of a particle is | $\frac{2\pi}{\sqrt{b}}$ | $a = -bx = -\omega^{2}x$ $\omega = \sqrt{b} = 2\pi/T$ |
| 148 | The Young's modulus of steal is | 60.0 | $Y = 2.0 \times 10^{11} \frac{N}{M^2}, r_0 = 3 \stackrel{0}{A}$ $K = yr_0$ |
| 149 | A wire is stretched by 5 mm when it is | 2.5 mm | |
| 150 | A liquid rises in a capillary tube | Acute | |

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CHEMISTRY

| S.N O. | Question | Answer | DETTAIL SOLUTION |
|--------------------------|--|--|---|
| 151 | Which of the following is formed when | Orange solution of Na ₂ Cr ₂ O ₇ is formed | |
| 152 | A compound contains | | According to English CH ₃ NH ₂ and no answer in hindi |
| 153 | A compound containing only carbon | An aldehyde | |
| 154 | The IUPAC name of the | 3,3-dimethyl $-1-$ bute | |
| 155 | Which of the isomerism is | Metamerism | |
| 156 | That which is not | Gasoline | |
| 157 | The petrol of octane | 20% n – hep tan e + $80%$ | |
| 158 | Structure of diethyl ether | Williamson's shythesis | |
| | | | |
| 159 | CH₃CHO gives | PCl ₅ | |
| 159 160 | CH ₃ CHO gives Which of the following acids acids cannot be | PCl ₅ Formic acid | |
| | Which of the following acids acids cannot | | |
| 160 | Which of the following acids acids cannot be | Formic acid | |
| 160 | Which of the following acids acids cannot be Chlorobenzene is prepared | Formic acid Raschig Process Friedal-Craft;s | |
| 160 161 162 | Which of the following acids acids cannot be Chlorobenzene is prepared Phenol $\frac{Z_n}{\Delta} \times x$. Which of the following reduces Tollens's | Formic acid Raschig Process Friedal-Craft;s reaction | |
| 160 161 162 163 | Which of the following acids acids cannot be Chlorobenzene is prepared $\frac{Zn}{\Delta} \times x.$ Which of the following reduces Tollens's reagent | Formic acid Raschig Process Friedal-Craft;s reaction Glucose | |
| 160 161 162 163 | Which of the following acids acids cannot be Chlorobenzene is prepared Phenol $\frac{Z_n}{\Delta} \times x$. Which of the following reduces Tollens's reagent Glucose converts into alcohol by action | Formic acid Raschig Process Friedal-Craft;s reaction Glucose Zymase | |

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| 168 | Which has maximum number of atoms? | 24 gms of C ₍₁₂₎ |
|-----|--|---|
| 169 | Which has the maximum number of unpaired | Fe ²⁺ |
| 170 | Bond order in species is as the following: | $O_2^+ > O_2 > O_2^-$ |
| 171 | Which compound has electrovalent bond ? | NaBr |
| 172 | Weight Of Urea required to prepare 200 ml | 24 gm |
| 173 | In Bragg's reaction $n\lambda = 2d\sin\theta$, n present | Order of reflection |
| 174 | The differences between number of Neutrons | Tritium atom |
| 175 | For the reaction $2NO_{(g)} + Cl_{2(g)} = 2NOCl_{(g)}$ | $K_{p} = \frac{K_{c}}{RT}$ |
| 176 | $CaCO_3(s)$ \Box $CaO(s) + CO_2(g)$, | Increases if T is raised |
| 177 | pH of water is 7.0 at 25°C. If water is | pH will be decreases |
| 178 | In the reaction $H_2O + HCl \rightarrow H_3O^+ + Cl^-$ | H ₂ O |
| 179 | The enthalpies of combustion of carbon and carbon | -110.5 kJ mole ⁻¹ |
| 180 | The quantity of K in a rate of expansion | Is independent of concentration of reactants |
| 181 | The half life of radioactive sodium is 15.0 hours. How many | 45 |
| 182 | Which of the following is not true for the reaction | Both Fe ³⁺ and Fe ²⁺ are called acid radicals |
| 183 | In the reaction $Pb(s)+Cu^{2+}(aq) \rightarrow Pb^{2+}(aq)+Cu(s)$ which is | Pb(s) |

| 184 | The phenomenon of negative | Inhibition |
|-----|---|--|
| 185 | is the gold number of hydrophilic colloid, then | Lower |
| 186 | In metallurgy if iron when limestone | Slag |
| 187 | Identify the least stable ion | Be ⁻ |
| 188 | Transition metals have generals electronic | in option (c) there should be ns ¹⁻² rather than ns ¹² |
| 189 | Variable valency is a general feature of | d-block elements |
| 190 | The amount of energy released when 10 ⁶ atoms of iodine in | 3.06 |
| 191 | Sodium hydride when dissolved in water | Basic solution |
| 192 | When zinc reacts with very dilute | NH ₄ NO ₃ |
| 193 | A black sulphide when reacts with ozone becomes | PbSO ₄ |
| 194 | Strongest reducing agent is | I- |
| 195 | The formula of hematite is | Fe_2O_3 |
| 196 | Which of the following forms with an excess of CN ⁻ | Ag^+ |
| 197 | The IUPAC name of Ni $(CO)_4$ is | Tetracarbonylnickelat e (O) |

| 198 | A 5 molar solution of H ₂ SO ₄ acid is diluted from 1 litre to 10 lite | 1N | |
|-----|--|---|--|
| 199 | Ferric ions form pressian blue coloured | Fe ₄ [Fe(CN) ₆] ₃ | |
| 200 | The volume of water to be added to 100 ml of 0.5N H_2SO_4 | 400 ml | |

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