

SCHOOL OF SCIENCES - विज्ञान गुरुकुलम

Chemistry-Dr Deepmala Pandey

Dr N P Katare – Biology

Dr Nirakesh Sharma-Physics/Mathematics

1. A bullet hits and gets embedded in a solid block resting on a horizontal frictionless table. What is conserved? – **Momentum**
2. Which mixture is homogeneous? – **Methanol and water**
3. What is formed by strong heating of potassium permanganate? – **O₂**
4. Most of the digestion occur in which part of alimentary canal of man? – **Small intestine**
5. What is the Branch of biology in which we study about relationship between living and their environment? – **Ecology**
6. Why does a man inside an artificial satellite feels weightlessness? – **Because the force of attraction due to earth is zero at that earth is**
7. Which has the longest wave length? – **Infra red radiation**
8. Which plant produce seed but not fruit? – **Mint**
9. When are positive ions are formed from neutral atoms? – **By loss of electrons**
10. Which Bacteria convert atmospheric nitrogen into nitrogenous compound? – **Nitrogen fixing bacteria**
11. If the ratio of the amplitudes of two waves is 4 : 3, then what will be the ratio of maximum and minimum intensity? – **49 : 1**
12. When the universal gas constant (R) is divided by Avogadro's number (N), what is their ratio called? – **Boltzmann's constant**
13. Why is yeast is used in bakery in the preparation of bread? – **Because it make bread soft and spongy**
14. Which variety of glass is used for the manufacture of optical glasses? – **Flint glass**
15. Sex determination of child is done by whose chromosome? – **Father**
16. In a stationary longitudinal wave, nodes are points of which variation? – **Maximum pressure variation**
17. Which crop enrich the soil with nitrogen? – **Pea**
18. At constant temperature, the product of pressure and volume of a given amount of a gas is constant, whose this law? – **Boyles'law**
19. If the amplitude of sound is doubled and the frequency reduced to one-fourth, what will the intensity? – **Decrease by a factor of 4**

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20. What is good source of protein ? – **Soyabean**
21. The compressed gas available in cooking gas cylinder is a mixture of which gases? – **C₄H₁₀ + C₃H₈**
22. What is the temperature at which the speed of sound in air becomes double of its value at 27°C? – **927°C**
23. For television broadcasting, how much MHz frequency employed normally? – **30-300 MHz**
24. Which insect spreads kala-azar? – **Sand fly**
25. By which enzyme is Urea converted into ammonia and carbon dioxide? – **Urease**
26. In the leaf of tobacco what is found? – **Nicotin**
27. Which property occurs in alkali metals? – **Largest atomic radii**
28. A number of images of a candle flame are seen in thick mirror which image will be brightest? – **The second image is the brightest**
29. Parthenogenesis is seen generally in which fruit? – **Grapes**
30. Inert gases (Except Helium) comes in which block in the periodic table? – **p-block**
31. Whose experiments proved that the speed of light was always the same? – **Michelson and Morley**
32. Why do Blood cells do not shrink in blood? – **Because blood is isotonic**
33. Which stem is modified to perform the function of leaf and many internodes called? – **Phylloclade**
34. What is the process of slow and homogeneous cooling of glass called? – **Annealing of glass**
35. Which is largest cell organelles? – **Plastid**
36. An endoscope is employed to view the internal parts of the body organ. It is based on the principle of which reflection? – **Internal reflection**
37. A solution contains 1 mole alcohol and 4 mole water. What will mole fraction of water and alcohol be? – **4/5 and 1/5**
38. What is the process in which loss of water occurs in the form of water vapour through aerial part of plant? – **Transpiration**
39. A strong magnetic field is applied on a stationary electron, then how will the electron? – **Remains stationary**
40. Why does Pure water not conduct electricity? – **Because it is almost not ionised**

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41. Besides water and light which is more essential as a raw material for photosynthesis? – **CO₂**
42. Why is the conduction of electricity through the electrolyte solution? – **Due to movement of ions of electrolyte**
43. Which fraction is obtained between temperature 150–300°C during fractional distillation of crude petroleum? – **Kerosene**
44. What is the process of transfer of genetic information from DNA to RNA or formation of RNA from DNA? – **Transcription**
45. What is the Study of integrated use of microbiology, biochemistry and engineering? – **Biotechnology**
46. If a proton is brought towards an electron from infinity, how will the potential energy of the system? – **Decrease**
47. What is an example of emulsion? – **Milk**
48. Which system is formed by the interaction of a community of organisms with its environment? – **Ecosystem**
49. Which branch of science deals with the study of tissue found in the body of organism? – **Histology**
50. In the electrolysis the amount of mass deposited or liberated at an electrode is directly proportional to which thing? – **Amount of charge**
51. Activated charcoal is employed to remove colouring matter from pure substance, it work? – **Adsorption**
52. Which substance is more than 80% in the cell? – **Water**
53. A horizontal cable carries a current from west to east. the direction of the magnetic field produced by the current at a point vertically above the wire is which side? – **North to south**
54. What is the Eosin used to detect the end point of precipitation titration by adsorption called? – **Normal indicator**
55. Which branch of science that deals with the study of law is genetics for the improvement of human race? – **Eugenics**
56. What is the bond between two amino acids in a protein? – **Ester bond**
57. What is the Study of inter-relationships between an entire community and its environment? – **Synecology**

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58. Ophthalmology is the branch of science in which we study about which thing? –
Eye
59. The process of converting hydrate Al_2O_3 into anhydrous aluminium is known as which name? –
Calcination
60. Fluorescent tubes are fitted with a choke. What does the choke coil? – **Reduces current in the circuit**
61. What is the second most common element in the universe? – **Si**
62. Entamoeba histolytica is found in which part of man? – **Intestine**
63. What is the maximum number of different electrical combination possible with three equal resistances? – **4**
64. Which is the compound in that oxygen shows + 2 oxidation state? – **F₂O**
65. The statements “Protoplasm is the physical basis of life” is given by which person? – **Purkinje**
66. Purification of aluminium by electrolyte refining is known as which name? –
Hoope’s process
67. Malaria parasite and Amoeba are grouped under? – **Protozoa**
68. Magnetic dipole moment is a vector quantity directed from which direction? –
South to north
69. What is France’s global ranking in terms of the number of animal species under threat? – **8**
70. Which is the largest phylum in the animal kingdom in respect of number of species? – **Arthropoda**
71. A large magnet is broken into two pieces. If the lengths of two pieces are in the ratio of 3 : 4. what is the ratio of their pole strengths? – **1 : 1**
72. Van arkel method of purification of metals involves converting the metal to which compound? –
Volatile compound
73. By whom was Tetrahedral nature of bonding in carbon atom first shown? – **van’t Hoff and Le-Bel**
74. Which ancestor of man for the first time began the bipedal locomotion ? –
Australopithecus
75. Which is the contractile protein muscle? – **Myosin**
76. Which is the compound in that oxygen shows –1 oxidation state is? – **Na₂O₂**

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77. What is the reason of floating of the ore particles in concentration by froth floatation process? –
Their being hydrophobic
78. What is also known as green protozo? – **Euglena**
79. If the electric current in a lamp decreases by 5% then the power output decreases by how many percentages? – **10%**
80. Acid rain is caused due to emission of which gases into the atmosphere? –
Oxides of nitrogen and sulphur
81. Which naturally occurring element in the rice husk makes it termite resistant? –
Silicon
82. Which quantity remains constant in a step-down transformer? – **Power**
83. In the extraction of zinc the formation of blue flame is due to the burning of which gas? – **CO**
84. What number of essential amino acid is found in man? – **20**
85. Which of the following potassium compounds is known as 'Pearl ash'? – K_2CO_3
86. By which is the amount of light entering into the eye controlled? – **Iris**
87. Over the last 100 years global sea level has risen by about howmany cm? – **10-12.5 cm**
88. Whose statement is this? "Algebraic sum of the current meeting at a node is zero" – **Kirchhoff's law**
89. What is formed when white phosphorus is heated at 540 K in the absence of air? – **Red phosphorus**
90. Which tissue help in keeping the body warm? – **Fatty tissue**
91. A particle of mass m and charge q travels from rest through a potential difference V . What is its final energy? – **qV**
92. Why are elements of group I known as alkali metals? – **Their oxides are alkaline**
93. In which organ carbohydrate is stored as glycogen? – **Liver**
94. Which particle has the longest de Broglie wavelength if they are moving with same velocity? – **α particle**
95. Which pollutant is main product of automobile exhaust? – **NO**
96. If all plant of the world die than why will all animal ultimately die? – **Due to Lack of oxygen**
97. Why does Coagulation of blood not occur inside human body? – **Due to presence of Heparin**
98. Which oxide is amphoteric in nature? – **SnO_2**

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99. In methane molecule how are the four hydrogen atoms arranged? – **As tetrahedral**
100. What is an association of individuals of different species living in the same habitat and having functional interactions? – **Biotic community**
101. What is the name of the scientist who stated that matter can be converted into energy? – **Einstein**
102. The isotopes of chlorine with mass number 35 and 37 exist in which ratio? – **3 : 1**
103. A gas is found to have the formula $(CO)_n$. Its vapour density is 70. What must the value of n be? – **5**
104. Which law directly explains the law of conservation of mass? – **Avogadro's law**
105. To whom the credit for the discovery of transuranic element goes? – **Seaborg**
106. How many moles are there is 140 g of Si (atomic mass of silicon is 28)? – **5**
107. Which substance does not have a melting point? – **Glass**
108. By which a mixture of sand and naphthalene can be separated? – **sublimation**
109. An element X forms an oxide XO_3 . What is the valency of X? – **6**
110. Sodium carbonate crystals lose water molecules. What is this property called? – **Efflorescence**
111. By whom was the law of constant proportions enunciated? – **Proust**
112. What is the number of unpaired electrons in carbon atom? – **2**
113. In an atom the order of filling up of the orbitals is governed by which principle? – **Aufbau principle**
114. Regarding the atom of a chemical element, magnetic quantum number refers? – **Orientation**
115. What are the atoms of the elements having same mass number but different atomic number called? – **isobars**
116. Rutherford's scattering experiment related to the size of which thing? – **nucleus**
117. By whom was the absolute value of charge on electron determined? – **R.A. Millikan**
118. Which property of the elements is a whole number? – **Atomic number**

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119. Discovery of the nucleus of an atom was due to the experiment carried out by _____ which _____ person? – **Rutherford**
120. What are the atoms of the elements which have same number of neutrons called? – **Isotones**
121. Whose experiment proved that the speed of light was always the same? – **Michelson and Morley**
122. Which element has two electrons in the K-shell only? – **Helium**
123. What is Electromagnetic radiation with maximum wavelength? – **Radio waves**
124. Which nuclear particles responsible for holding all nucleons together? – **Mesons**
125. In which process, a nucleus spontaneously breaks down by emitting radiation? – **Radioactive decay**
126. In atomic reactors, graphite is used as which name? – **Moderator**
127. Why is Cobalt-60 commonly used in radiation therapy? – **Because it emits gamma rays**
128. A radioactive substance has a half life of four months. Three-fourth of the substance would decay in howmany months? – **8 months**
129. What is a bond formed by the transfer of electrons between atoms of the elements called? – **ionic bond**
130. What is a bond formed by sharing of electrons between atoms of the elements _____ called? – **covalent bond**
131. What is the maximum number of hydrogen bonds in a H₂O molecule? – **4**
132. Select the compound in which chlorine shows oxidation state + 7? – **HClO₄**
133. What is the oxidation of two Cl atoms in bleaching powder Ca(OCl) Cl? – **+1,-1**
134. What is the Oxidation state of Mn in acidic KMnO₄ change from? – **+7 to +2**
135. Why is Molten NaCl good conductor of electricity? – **Free ions**
136. What is the common oxidation state of alkali metals in the combined state? – **+1**
137. What is the oxidation number and covalency-of sulphur in S₈? – **0, 2**
138. Starch iodide paper is used to test for the presence of which agent? – **Oxidising agent**

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139. The pH of water at 25° C is 7. When it is heated to 100°C, what will the pH of water? – **increases**
140. When Metal carbonate reacts with dilute acids, what does it forms? – **CO₂**
141. The element common to all the acids is known as which name? – **Hydrogen**
142. What is the sum of pH and pOH in aqueous solution at 25°C? – **14**
143. By what factor is a solution with pH = 2 more acidic than one with pH = 6? – **10⁴**
144. Red litmus paper is changed into blue in solution of which thing? – **Base**
145. What is formed by dissolution of base or acid in water? – **Exothermic**
146. Blue litmus paper is converted into red in solution of which thing? – **acid**
147. According to Arrhenius theory of an acid and base, an acid is a substance that gives which ions in water? – **H⁺ ions**
148. What is the negative logarithmic value of hydrogen on called? – **pH**
149. What are the physical state of dispersion medium of a cloud? – **Gas**
150. Vander Wall's equation explains the behaviour of which gases? – **real gases**
151. In general gas equation, $pV = nRT$, V is the volume of which gas? – **n mole of a gas**
152. What is the ratio of rate of diffusion of oxygen and hydrogen? – **1 : 4**
153. Absolute zero is the temperature where all gases are expected to have howmuch volume? – **Zero volume**
154. 4.4 g of CO₂ contains how many litre of CO₂ at STP? – **2.24 litre**
155. Glucose or fructose is converted into C₂H₅OH in the presence of which thing? – **zymase**
156. Which type of materials act as effective catalysis? – **Transition metals**
157. What is the substance which decreases the rate of a chemical reaction? – **Poison**
158. TEL minimise the knocking effect when mixed with petrol, how does it act? – **As negative catalyst**
159. Which is the catalyst used in the manufacture of sulphuric acid by contact process? – **V₂O₅**
160. Which catalyst is sensitive to temperature changes? – **Enzyme**

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161. Which is the temperature at which the catalytic activity of the catalyst is maximum? – **Optimum temperature**
162. Alcoholic fermentation is brought about the action of which thing? – **Yeast**
163. Which is catalyst used in the Deacon's process for the manufacture of chlorine? – **CuCl₂**
164. In the Ostwald's process for manufacture of HNO₃, which catalyst is used? – **Pt**
165. Which gas has maximum calorific value? – **Oil gas**
166. When ammonium chloride is dissolved in water, the solution becomes cold. What is change? – **Endothermic**
167. When ice melts into water, which type of change occurs in entropy? – **Increases**
168. In which type of coal percentage of carbon is the highest? – **Anthracite**
169. What is the mixture of carbon monoxide and nitrogen called? – **Producer gas**
170. What is the mixture of carbon monoxide and hydrogen called? – **Water gas**
171. Which law of thermodynamics introduces the concept of entropy? – **Second law**
172. For which element, the standard enthalpy is not zero? – **C (Diamond)**
173. Which fuel causes minimum environmental pollution? – **Hydrogen**
174. Which gas has the highest fuel value? – **Hydrogen**
175. The compound with negative heat of formation is known as which name? – **Exothermic compound**
176. Which hydrocarbon is mainly present in gobar gas? – **Methane**
177. What happens when the door of a refrigerator is kept open? – **Room heated**
178. What does the second law of thermodynamics introduced? – **The concept of Entropy**
179. What is an extensive property of the system? – **Volume**
180. A gas expands isothermally and reversible. How much work is done by the gas? – **Maximum**
181. About which is the information not conveyed by thermodynamics? – **Rates of reactions**

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182. Which is the element that has the highest first ionization potential? – **Nitrogen**
183. What has the highest ionization potential? – **Ne**
184. Which of the following among alkali metals is most reactive? – **Cs**
185. Which is the element having lowest melting point in periodic table? – **He**
186. Which are the elements on the right side of the periodic table? – **Non-metals**
187. Which transition metal is in liquid state? – **Mercury**
188. Which electronic configurations exhibits metallic character? – **2, 8, 2**
189. Which element has the lowest electron affinity? – **Argon**
190. By whom was the calculation of electronegativities first done? – **Pauling**
191. Which element does not exist in liquid state at room temperature? – **Na**
192. What is the most electropositive amongst the alkaline earth metals? – **Barium**
193. Which block of elements is mostly metals with high B.P., M.P. values? – **d-block**
194. Which are the vertical lines in modern periodic table called? – **Group**
195. What is horizontal line in modern periodic table called? – **Period**
196. In a period, the elements are arranged in which order? – **Increasing charges in the nucleus**
197. Which noble gas does not have octet of electrons in its outer shell? – **He**
198. Which pair of elements is in the same period of the periodic table? – **Na, Cl**
199. Why is the electron affinity of chlorine highest than that of fluorine? – **Smaller nuclear charge**
200. What is the Electron affinity of noble gases? – **Almost zero**
201. Which mirror is to be used to obtain a parallel beam of light from a small lamp? – **Concave mirror**
202. The focal length of the lens in a photographic camera is 5 cm. What is the power of the lens? – **+ 20 D**
203. When viewed in white light, why do soap bubbles show colours? – **Because of interference**
204. Angular separation between two colours of the spectrum depends upon which thing? – **Angle of deviation**
205. Total internal reflection of light is possible when light enters from which thing? – **Water to air**
206. Which is used to remove astigmatism for a human eye? – **Cylindrical lens**

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207. Why does diffusion of light in the atmosphere take place? – **Due to dust particles**
208. Which phenomena can not be attributed to the refraction of light? – **Redshift**
209. Total internal reflection can take place when light travels from which thing? – **Diamond to glass**
210. The refractive index of a given piece of transparent quartz is greatest for which light? – **Violet light**
211. A virtual image larger than the object can be formed by which mirror? – **Concave mirror**
212. If there were no atmosphere, what will be the length of the day on the earth? – **Decrease**
213. The focal length of a convex lens is 50 cm. what is its power? – **+2 D**
214. For an astronaut in a space ship, how does the sky appear? – **Black**
215. Which phenomena is used in optical fibres? – **Total internal reflection**
216. What is the phenomenon of splitting white light into seven colours? – **Dispersion**
217. Critical angle is minimum when a light ray passes which thing? – **Glass to air**
218. If the angle between two plane mirrors is 60° ; then how many number of image will be formed? – **5**
219. In which part of the eye lies the pigment, that decides the colour of the eyes of a person? – **Choroid**
220. Critical angle of. light passing from glass to water is minimum for which colour? – **Violet colour**
221. To an observer on the lunar surface, during the day time, how will the sky appear? – **Black**
222. What is the unit of luminous efficiency of an electric bulb? – **Lumen / watt**
223. Which of light are strongly absorbed by plants? – **Blue and red**
224. A far-sighted person has a near point at 100 cm. What must be the power of the correcting lens? – **+3.0 D**
225. How many image can a man see if he stands between two plane mirrors inclined at an angle of 60° ? – **5**
226. How is image formed on the retina of a human eye? – **Real and inverted**
227. The resistance of material increases with temperature. What is this? – **Metal**

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228. When do all the magnetic materials lose their magnetic properties? – **Strongly heated**
229. What is the relative permeability of a paramagnetic material? – **Greater than unity**
230. A soap bubble is given negative charge then what happen in its radius? – **Increases**
231. How is the relative permeability of a diamagnetic material? – **Less than unity**
232. How are the magnetic field lines in the middle of a solenoid? – **Parallel to the axis**
233. Why do Electricians use rubber gloves while working? – **Rubber is an insulator**
234. What work is work done in moving a positive charge on an equipotential surface? – **Zero**
235. Kirchoff's voltage law is based on the law of conservation of which thing? – **Energy**
236. Why is In a hydel station the motion produced in turbines? – **Due to the flow of water**
237. What is most suitable for the core of an electromagnet? – **Soft iron**
238. At a grid sub stations the voltage is stepped up to reduce loss of which thing? – **Power**
239. Equal charges are given to two spheres of different radii. What will the potential be? – **More on smaller sphere**
240. Two electron beams are travelling parallel to each other. What will be their reactions? – **Repel each other**
241. Instrument used to store the electric charge is known by which name? – **Capacitor**
242. When an ebonite rod is rubbed with fur, which charge acquired by the fur? – **Positive**
243. Conversion of chemical energy into electrical energy occurs in which thing? – **Battery**
244. What is the temperature at which a ferromagnetic material becomes paramagnetic? – **Curie temperature**
245. A magnetic needle is kept in non uniform magnetic field. What does it experiences? – **A force and a torque**

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246. Where will be the Time period in a vibration magnetometer infinite? – **At magnetic pole**
247. The north pole of the earth's magnet is near the geographical which direction? – **South**
248. If the current in the core decreases, what will the strength of the magnetic field be? – **Decreases**
249. The intensity of a magnetic field is defined as the force experienced by which pole? – **Unit north pole**
250. If a material, placed in a magnetic field is thrown out of it, then how is the material? – **Diamagnetic**
251. The capacity of a pure capacitor is 1 farad. In D.C. circuit, what will its effective resistance be? – **Infinite**
252. If a bar magnet is cut length wise into 3 parts, what will the total number of poles be? – **6**
253. For electroplating a spoon, it is placed in the voltameter at which position? – **The position of cathode**
254. A substance, when inserted between the poles of a magnet, is pushed out, what is it? – **Diamagnetic**
255. By inserting a soft iron piece into solenoid, what does the strength of the magnetic field? – **Increase**
256. The magnetic induction associated with currents flowing in a hollow copper tube, how will be? – **only out side**
257. How is the electric potential at the centre of a charged conductor? – **Same as on the surface**
258. What is not the cause of low conductivity of electrolyte? – **Ionisation of salt**
259. What is Electric field intensity at a point a hollow charged spherical conductor? – **Is zero**
260. Which property is processed by the ferromagnetic substance? – **Hysteresis**
261. Which type of cell can be used if a device requires 75 A of current for 15 seconds? – **Lead-acid cell**
262. A hydrogen atom is paramagnetic. What is a hydrogen molecule? – **Diamagnetic**

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263. In nuclear fission, how many percentage of mass is converted into energy?
– **0.1%**
264. X210 has half life of 5 day. What is the time taken for seven-eighths of sample of X210 to decay? – **15 days**
265. If a U-238 nucleus splits into two identical parts, how will the two nuclei be so produced? – **Stable**
266. What is the half-life of a radioactive element which has only 1/32 of its original mass left after a lapse of 60 days? – **12 days**
267. If a proton of mass m is moving with the velocity of light, what will its mass be? – **Infinite**
268. What was the fissionable material used in the bomb dropped at Nagasaki (Japan) in the year 1945? – **Plutonium**
269. Energy transferred to a person through gamma rays is measured in by which unit? – **Roentgens**
270. Which field is used to produce deflection in a television picture tube? – **A magnetic fields**
271. The electron emitted in beta radiation originates from where? – **Inner orbits of atoms**
272. From which the cathode ray particles originate in a discharge tube? – **Cathode**
273. Einstein's mass energy relation is given by which expression? – **$E = mc^2$**
274. Which rays will deflect in electric field? – **Cathode rays**
275. What percentage of the original quantity of a radioactive material is left after five half lives approximately? – **3%**
276. What is the important conclusion given by Millikan's experiment about the charge? – **Charge is quantized**
277. What are Alpha rays emitted from a radioactive substance? – **Helium nuclear**
278. Which are the Particles that can be added to the nucleus of an atom without changing its chemical properties? – **Neutrons**
279. Which particle has similar mass to that of the electron? – **Positron**
280. When the speed of electrons increases, then what happens in the value of the specific charge on an electron? – **Decreases**

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Dr N P Katare – Biology

Dr Nirakesh Sharma-Physics/Mathematics

281. The colour of the +ve column in a gas discharge tube depends on which thing? – **The gas in the tube**
282. The first explosion of an atomic device in India was carried out in which state? – **Rajasthan**
283. Direct conversion of solar energy with the use of photovoltaic cell results in the production of which energy? – **Electrical energy**
284. Why is energy is continuously generated in the sun? – **Due to nuclear fusion**
285. What is the ratio of specific charges of an α -particle to that of a proton? – **1/2**
286. Long distance short-wave radio broad casting uses which waves? – **Ionospheric wave**
287. Which satellite is used in ship-to-shore and shore-to-shore and shore-to-ship communication? – **Marisat**
288. Which is electrical circuits used to get smooth de output from a rectified circuit called? – **Filter**
289. When the temperature of semiconductor is increased, what will happen in its electrical conductivity? – **Increases**
290. With the rise of temperature, what will happen in the specific resistance of semiconductor? – **Decreases**
291. The absorption of radio waves by the atmosphere depends on which thing? – **Their frequency**
292. Which are the space waves are affected seriously by atmospheric conditions? – **UHF**
293. With which can Radio wave of constant amplitude be generated? – **Oscillator**
294. What is the electrical circuit used to get smooth DC output from a rectifier circuit called? – **Filter**
295. If germanium has to be doped with a donor impurity, how should the foreign atom be? – **Pentavalent**
296. In a p-type semiconductor, Which are the majority charge carriers? – **Holes**
297. The unidirectional property of a pn-junction is useful for its use as which thing? – **Rectifier**

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Dr N P Katare – Biology

Dr Nirakesh Sharma-Physics/Mathematics

298. Which energy of the electron at absolute zero is called? – **Fermi energy**
299. For television broadcasting, what frequency is employed normally? – **30-300 MHz**
300. A zener diode is also a p – n junction diode. It can be used as which regular? – **DC voltage regulator**
301. Which effect shows particle nature of light? – **Photoelectric effect**
302. A particle is executing S.H.M. Then what is the graph of acceleration as a function of displacement? – **Hyperbola**
303. An atom has 7 electrons in its M-shell and contains 18 neutrons in its nucleus. What is its mass number? – **35**
304. The medicine ephedrin used in the treatment of cough, asthma and bronchitis, from where is obtained? – **Ephedra**
305. By whom was the concept of dual nature of radiation proposed? – **de-Broglie**
306. In a bisexual flower if androecium and gynoecium mature at different time the phenomenon is known as which name? – **Dichogamy**
307. A small drop falls from rest from a large height h in air. What is the final velocity? – **Almost independent of h**
308. Why does Molten sodium chloride conduct electricity? – **Due to the presence of free ions**
309. Which modification of root does not store food? – **Stilt**
310. The total energy of a particle vibrating in S.H.M. is proportional to which thing? – **The square of its Amplitude**
311. A body rolling freely on the surface of the earth eventually comes to rest, why does it do so? – **Because it suffers friction**
312. What is the biological process in which glucose and fat is oxidised to liberate energy? – **Respiration**
313. What is an example of Miscelles System here? – **Soap + Water**

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Dr Nirakesh Sharma-Physics/Mathematics

314. A gale blows over a house. The force due to the gale on the roof is in which direction? – **In the upward direction**
315. Why is Ail aqueous solution of copper sulphate is acidica in nature? – **Because the salt undergoes hydrolysis**
316. Oxygen released during photosynthesis of green plant comes from the breakdown of which thing? – **Water**
317. The pressure at the bottom of a liquid tank does not depend on which area? – **Area of the liquid surface**
318. Which compound transforms baking soda into baking powder? – **KHC4H4O6**
319. Water will be absorbed by root hairs, then how is when the external medium? – **Hypotonic**
320. Why is Weightlessness experienced in spaceship? – **Due to absence of gravity**
321. How is Perchloric acid prepared? – **By the action of Concentrate sulphuric acid on potassium perchlorate**
322. What is the Study of system of animal body which protects it from infection of various disease? – **Immunology**
323. A particle revolves round a circular path with a constant speed, how is the acceleration of the particle? – **Along the radius**
324. Which is the Branch of science that deal with the improvement of human race by providing better environmental condition? – **Euthenics**
325. Aluminium surface are often 'anodized'. This means deposition of a layer of which oxide? – **Zinc oxide**
326. Which Animal is also known as 'Portuguese man of war'? – **Physalia**
327. Which metal is extracted by thermal reduction process? – **Copper**
328. An ideal liquid flows through a horizontal tube of variable diameter. The pressure is lowest and what will be velocity? – **Velocity is highest**

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329. If a non-metal is added to the interstitial sites of a metal, then how does the metal become?
– **less malleable**
330. Which is used as a gift in Japan? – **Euplectella**
331. A gas is enclosed in a container which is then placed on a fast moving train. What will be the temperature of the gas? – **Remain unchanged**
332. When will a hot body radiate maximum energy? – **If its surface is black and rough**
333. How many electrons are involved in the oxidation by KMnO_4 in basic medium? – **4**
334. Which chemical substance secreted by particular species of animal to attract another member of same species? – **Pheromones**
335. How is the heat transferred by the radiator of a refrigerator? – **More than that at the freezer**
336. Which compound of zinc is white when cold and yellow when hot? – **ZnO**
337. *Pheretima posthuma* is scientific name of which animal? – **Earth worm**
338. Mercuric sulphide dissolves in aqua-regia to form which compound? – **HgCl₂**
339. An individual whose blood type is B may in an emergency donate blood to a person which blood groups? – **AB or B**
340. If the amplitude of a wave at a distance t from a point source is A , what will be the amplitude at a distance $2r$? – **$A/2$**
341. In which sequence are the electromagnetic radiations in decreasing order of wave lengths?
– **Infrared, radio, X-rays, visible**
342. Salts of which element provide colours to fireworks? – **Strontium and barium**
343. Which organ have the capacity of regeneration? – **Liver**
344. With the increase in temperature, what happens in the frequency of the sound from an organ pipe? – **Increases**
345. What is obtained when cadmium chloride is treated with water? – **$\text{Cd}(\text{OH})_2$**

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346. Which organ cannot be transplanted? – **Brain**
347. When a coin placed in a bowl of water is seen from above, how does it appear? – **Raised from its position**
348. What is formed when cadmium reacts with H_2S ? – **CdS**
349. Appetite and satiety centres of brain, where are present in? – **Hypothalamus**
350. Which gland disappear during old age? – **Thymus**
351. How is the metallic nature of transition elements is than that of alkali metals? – **Less**
352. Which types of waves are used in a night vision apparatus? – **Infra-red-waves**
353. When seen in green light, what will the saffron and green portions of our national flag appear? – **Black and green respectively**
354. The 3d transition series contains how many elements from atomic number? – **21 to 30**
355. Which blood group is universal doner? – **O**
356. Which lanthanides are used in glass, blowers, goggles? – **Pr, Nd**
357. Why is the function of the collimator in a spectrometer? – **To obtain a parallel beam of light**
358. What is the smallest structural and functional unit of nervous system? – **Neuron**
359. Which compound is obtained when auric chloride reacts with sodium chloride? – **$Na[AuCl_4]$**
360. What is systolic and diastolic pressure in a healthy man? – **120 mm and 80 mm**
361. The refractive index of a piece of transparent quartz is the greatest for which light? – **Violet**
362. Which part of human brain is the regulating centre for swallowing and vomiting? – **Medulla oblangata**
363. By which Carbon and hydrogen are estimated in organic compounds? – **Liebig's method**

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364. If the refractive angle of a prism is 60° and the minimum deviation is 30° , then the angle of incidence is how many degrees? – **45°**
365. What is present both in plant and animal? – **Plasma membrane**
366. What does mixture of CS_2 and H_2S on passing over heated copper give? – **Methane**
367. If the rotational velocity of a dynamo armature is doubled, what will then the induced emf? – **Become double**
368. Which is used in storage batteries? – **Lead**
369. What is the name of the poisonous gas formed by the interaction of acetylene and arsenic trichloride? – **Lewisite**
370. Which tissue take part in healing the wounds? – **Epithelium tissue**
371. When a body is earth connected, electrons from the earth flow into the body. What is its mean? – **This means the body is Charged positively**
372. Acetylene is used as an anaesthetic under which name? – **Narcylene**
373. In daily requirement basis which vitamin is required in largest quantity by the human body? – **Vitamin C (Ascorbic acid)**
374. When does not No current flows between two charged bodies? – **If they have same potential**
375. Denatured spirit is a mixture of ethyl alcohol, methyl alcohol and which other thing? – **Pyridine**
376. Consumption of fish is considered to be healthy compared to flesh of other animals why? – **Because it contains polyunsaturated fatty acids**
377. What is the reason for excessive solubility of ethyl alcohol in water? – **Due to hydrogen bonding with water**
378. Through which are the characters are transferred from parents to progeny? – **DNA**

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379. A radioactive substance has a half life of 4 months. In how many months will three fourths of the substance will decays? – **8 months**
380. The cause of fractional atomic weights of elements? – **The presence of Isotopes**
381. Which gas, is used for artificial ripening of fruit? – **C₂H₄**
382. Which branch of biology deal with the study of heredity? – **Genetics**
383. The maximum number of photo electrons released in photocell is independent of which thing? – **Frequency**
384. A fruity smell is produced by the reaction of C₂H₅OH with which formula? – **CH₃COOH**
385. By which can Evolutionary development of a species be best studied? – **Studying fossils of this species**
386. What is the process by which vegetable ghee is manufactured? – **Hydrogenation**
387. Early atmosphere contained methane and other hydrocarbons they have been replaced by which gas? – **Carbon dioxide**
388. For an electric dipole, how are the field at a point on the equatorial line and the dipole moment? – **In opposite direction**
389. Crop sown soon after the onset of south-west monsoon in India, what is this called? – **Kharif**
390. Thermal decomposition of alkanes is known as which name? – **Cracking**
391. If a diamagnetic substance is brought near north and south pole of a bar magnet, what will be then? – **It is Repelled by poles**
392. What is a glass sided tank, bowl in which aquatic animals live? – **Aquarium**
393. Deficiency of which vitamin causes xerophthalmia? – **Vitamin A**
394. If a wire of resistivity ρ is stretched to double its length, then what will change in its new resistivity? – **Not change**

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395. Cathode rays enter an electric field normal to the lines of force. Then how is their path in the electric field is – **Parabola**
396. The word “biodiversity” is a combination of which two words? – **Biology and diversity**
397. Which thing is the sweetest natural sugar? – **Lactose**
398. Jaundice in human beings affects which of the body part? – **Liver**
399. How many orangutans disappear each year as result of palm oil farming? – **5000**
400. The sky wave propagation is suitable for radio waves of frequency from how many MHz? – **From 2 MHz to 30 MHz**
401. . Which is considered a hot-spot of biodiversity in India? – **Western Ghats**
402. Trunk of tree increases in girth due to cell division in which tissue? – **Meristematic tissue**
403. Which tissue in cells have lost the capacity of cell division? – **Permanent tissue**
404. Which scientist studied about wheat rust problem? – **K. C. Mehta**
405. Most of the plants obtain nitrogen from the soil in which form? – **Nitrates**
406. Which fungus is responsible for disease late blight of potato? – **Phytophthora infestans**
407. Which is responsible for red rot of sugarcane? – **Colletotrichum falcatum**
408. Which stage of development of insect is most harmful for crop? – **Caterpillar**
409. In India famous Bengal famine occurred in 1942 by which disease? – **Leaf spot of rice**
410. Which factors are most responsible for disease in plant? – **Fungi**
411. Which fungus is responsible for the tikka disease of groundnut? – **Cercospora personata**
412. Which animals who have constant body temperature? – **Homeothermic**
413. What is treatment of body defects through massage and exercise? – **Physiotherapy**
414. What is making interesting discoveries unexpectedly or by accident? – **Serendipity**
415. What is Study of growth and development of embryo? – **Embryology**

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Dr Nirakesh Sharma-Physics/Mathematics

416. Which branch of biology is concerned with study and function of internal organ of organism? – **Physiology**
417. Which branch of science deal with the study of causative agent of disease? – **Etiology**
418. What is the Study of pulse and arterial blood pressure called? – **Sphygmology**
419. Which branch of biology deals with the study of processing and preservation of food? – **Food technology**
420. What is the Study of the effects of toxic chemical substance on animal and plant? – **Toxicology**
421. What is the Branch of science which deals with the study of skin of man? – **Dermatology**
422. The release of which fish into wells helps in controlling the mosquitoes? – **Gambusia fish**
423. Which animal lays eggs and does not produce young ones directly? – **Echidna**
424. How many pair of heart is found in an earthworm? – **Four**
425. Which substance found in blood which helps in clotting? – **Fibrinogen**
426. Which worm reach into intestine of human by eating leaf? – **Tape worm**
427. Which is the phylum that includes exclusively marine animal? – **Echinodermata**
428. Which organs has its own wave of autonomic excitation? – **Heart**
429. What is the short upper part of human intestine next to the stomach? – **Duodenum**
430. A person feel fatigued due to depositon of which acid in their muscles? – **Latic Acid**
431. In the retina of eye cells what is present for colour differentiation? – **Cones**
432. Which gland is responsible for the secretion of insulin? – **Pancrease**
433. What is considered as the easily digestable source of protein? – **Soyabean**
434. What percentage of water found in blood plasma of human? – **91 to 92%**
435. Which blood vessel bringing blood into Bowman's capsule? – **Afferent arteriole**
436. Bu which antibodies are produced in the plasma of blood? – **Lymphocytes**
437. Which enzyme take part in digestion of milk protein? – **Rennin**

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Dr N P Katare – Biology

Dr Nirakesh Sharma-Physics/Mathematics

438. Which part of brain is centre of thirst hunger and sleep? – **Hypothalamus**
439. Blood Coagulation is prevented by which chemical when it flow through artery and vein? – **Heparin**
440. Which organelles in the cell, other than nucleus contains DNA? – **Mitochondria**
441. What is infolding from the inner membrane of mitochondria called? – **Cristae**
442. In a living cell what is the site of ribosome formation? – **Nucleolus**
443. What do both respiration and photosynthesis require? – **Cytochromes**
444. In absence of ribosome in cell which function does not takes place? – **Protein synthesis**
445. Deficiency of which vitamin, causes xerophthalmia? – **Vitamin A**
446. Which antimicrobial drug is suitable for treatment of both tuberculosis and leprosy? – **Rifampicin**
447. Insects that can transmit diseases to human are referred to as which name? – **Vectors**
448. Pneumoconiosis affects the workers who work mainly in which industry? – **Coal mining industry**
449. Lathyrism is caused by excessive consumption of which thing? – **Khesari Dal**
450. Which part of blood carry out the function of body defence? – **White blood cell**
451. Which disease is caused due to presence of excess arsenic in water? – **Skin Cancer**
452. What is the transmission of characters from one generation to next? – **Heredity**
453. Who got noble prize for artificial synthesis of DNA? – **Kornberg**
454. What is the smallest part of DNA that undergoes recombination? – **Recon**
455. By whom was Artificial gene synthesis first done in laboratory? – **Khurana**
456. By whom the concept of survival of the fittest as advanced? – **Herbert Spencer**
457. From the evolutionary point of view, which is the most primitive animal? – **Turtle**

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Dr N P Katare – Biology

Dr Nirakesh Sharma-Physics/Mathematics

458. Which was the Russian scientist who proposed the theory of origin of life?
– **Oparin**

459. Who published the book 'Origin of species by natural selection in 1859'? –
Darwin

460. Which is most primitive ancestor of man ? – **Australopithecus**

461. Which harmful element tobacco exists in tobacco ? – **Nicotine**

462. What is abiotic component of ecosystem? – **Water**

463. What is Study of inter relationship between living organism and their environment? –

Ecology

464. Epiphytes are plant which depend on other plants for which purpose? –
Mechanical support

465. What amount of energy transferred from one trophic level to next? – **10%**

466. Plant and animal living in a particular area, what is it called? – **Community**

467. Reduced leaves and sunken stomata are the main feature of which thing?
– **Xerophytes**

468. What ratio of forest area needed for ecological balance in India? – **33.3%**

469. Ultimate environmental hazard to mankind, why? – **Due to Nuclear pollution**

470. Sound become hazardous noise pollution at which level? – **Above 80 dB**

471. Which energy do not have the problem of pollution? – **Sun**

472. Which air pollutant affect the nervous system of man? – **Lead**

473. By which is the Atmosphere of big metropolition cities is polluted most? –

Automobile

exhausts

474. National Environmental Engineering research institute is situated in which city? – **Nagpur**

475. Edward Jenner is related with which disease? – **Small pox**

476. Which Scientist first explained about circulatory system? – **William Harvey**

477. Who discovered Anopheles mosquito transmit malaria? – **Ronal ross**

478. Who discovered the causal organism of the disease Anthrax? – **Robert**

Koch

479. Which Scientists has established the 'Phylum Annelida'? – **Lamark**

480. Which Biologist proposed the theory of Germ plasm? – **Weisman**

481. For which is the southern blot technique used for the detection? – **DNA**

482. For which is the northern blot technique used for the detection? – **RNA**

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Chemistry-Dr Deepmala Pandey

Dr N P Katare – Biology

Dr Nirakesh Sharma-Physics/Mathematics

483. What is the introduction of foreign genes for improving genotype? –
Immunsation
484. Which vitamin is transformed in golden rice ? – **Vitamin A**
485. Human protein x –1 – antitrysin is used for which disease? – **Emphysama**
486. Which type of cell has the ability to develop into any type of all ? – **Stem cell**
487. What is the percentage of land area covered under forest according to Indian Forest policy?
– **33%**
488. Which organisation is responsible for maintaing Red data book? – **IUGN**
489. What is the main cause of extinction of species from tropics? –
Deforestation
490. What is the number of plant species estimated to be present in India? –
40,000
491. Which group has the highest number of endangered species ? – **Reptiles**
492. Silent valley having rare plant and animal is located in which state? –
Kerala
493. Which is the first national park established in India? – **Corbet**
494. Insectivorous plant generally grow in soil which is deficient in which gas? –
Nitrogen
495. What is one-way relationship where one species benefits at the expense of another called? – **Parasitism**
496. What is symbiotic relationship in which both species benefit' is best described? – **Mutualism**
497. Which of a species describes the tropic function it fills in its environment? –
Niche
498. What is the least influential in determining the distribution of terrestrial biomes? – **Salinity**
499. What is the term for the maximum number of individuals that an area can support indefinitely? – **Carrying capacity**
500. The massive hole in the ozone layer over the Antarctica was first discovered in which year?
– **1985**
501. Which animals have a diet mainly consisting of bamboo? – **Red pandas**

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Dr N P Katare – Biology

Dr Nirkesh Sharma-Physics/Mathematics

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