

SSLC SCIENCE PUBLIC EXAM QUESTION PAPER COLLECTIONS.

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- 1.What is the audible range of frequency?
- 2.What is the minimum distance needed for an echo?
- 3.Write any 4 uses of ethanol?
4. what is respiratory quotient?
- 5.Draw and label the parts of sperm.
- 6.What is called evolution?
- 7.Distinguish between somatic gene therapy and germ line gene therapy.
- 8.How is cancer cell different from normal cell?
- 9.How are e-wastes generated?
- 10.State Avogadro's law.

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- 11.Write the symbol for the following component (i)ground connection (ii)Resistor (iii)light emitting diode (iv)a diode.
 - 12.A charge of 12 coulomb pass through a bulb in 5 seconds. What is the current through the bulb?
 - 13.Define atomicity and give example.
 - 14.Calculate the molecular mass of Co_2 .
 - 15.How is rust formed.Give the equation for formation of rust.
 - 16.State 2 methods of preventing corrosion.
 - 17.What is photosynthesis and where does it occur in a cell?
 - 18.Differentiate aerobic and anaerobic respiration.
 - 19.Name the gaseous plant hormone. Mention any 3 physiological effects in plants.
 - 20.What is pollination? State the types.

- 21.State the importance of pollination.
- 22.Explain the structure of chromosome
- 23.Discuss the importance of biotechnology in the field of medicine.
- 24.How does rainwater harvesting structures recharge groundwater.
25. ${}_{92}^{238}\text{U}$ experiences alpha decay find the number of neutrons in the daughter element.
- 26.Write About myopia.
- 27.Write about hypermetropia.
- 28.Write to uses of concave lens.
- 29.State Newton's first law of motion.
- 30.State Newton's second law of motion.

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- 31.State Newton's third law of motion.
 - 32.What happens when $\text{Mg SO}_4 \cdot 7\text{H}_2\text{O}$ is heated? write an appropriate equation for the same.
 - 33.Differentiate hygroscopic substance and deliquescent substance with example.
 - 34.What are called thermolysis reactions?
 - 35.Differentiate reversible and irreversible reactions.
 - 36.Enumerate the functions of blood.
 - 37.Guard cells are responsible for opening and closing of stomata. Give reason for this statement.
 - 38.Suggest measures to overcome the problems of an alcoholic.
 - 39.What are the contributing factors of obesity.
 - 40.State Snell's law.

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41. Classify the types of forces based on their application.
42. What is refractive index?
43. Define one calorie
44. Classify the following substances into hygroscopic and deliquescent substances:
i) concentrated sulfuric acid ii) copper sulphate penta hydrate iii) calcium chloride iv) silica gel v) gypsum salt
45. Why fossil fuels are to be conserved?
46. Draw and label the parts of Pollen grain.
47. What do you understand by the term phenotype and genotype .
48. Why are thyroid hormone referred as “ personality hormone”?
49. Why is the colour of the blood red?
50. A person with myopia can see objects placed at a distance of 4 m. If he wants to see objects at a distance of 20 m, what should be the focal length and power of the concave lens he must wear?
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51. Differentiate myopia and hypermetropia.
52. Describe rocket propulsion.
53. Write any 4 features of natural and artificial radiation.
54. Differentiate reversible and irreversible reactions .
55. What is respiratory quotient?
56. Differentiate aerobic and anaerobic respiration.
57. How can you prevent and control obesity?
58. What are the factors affecting photosynthesis?
59. Define ethnobotany.
60. State importance of ethnobotany.
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61. Define inertia.
62. Explain the types of inertia with example
63. Define relative atomic mass
64. Give 2 examples for hetero diatomic molecule.
65. State 4 features of modern atomic theory.
66. What is transpiration?
67. Give the importance of transpiration.
68. What are the functions of blood?.
69. Draw the pictures of granulocytes.
70. How will you prevent soil erosion?
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71. State Newton's second law.
72. Write any two applications of echo.
73. State Boyle's law.
74. What is the importance of rainwater harvesting?
75. Draw the structure of adrenal gland and label its parts.
76. What is revolution? Who proposed the theories of evolution?
77. Name any two maize hybrids rich in amino acid lysine.
78. Differentiate mass and weight.
79. List the properties of light.
80. Explain why the ceilings of concert halls are curved.
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81. What is an alloy?
82. Give the reasons for alloying?
83. Classify the following compounds based on the pattern of carbon chain and give their structural formula. 1. Propane 2. Benzene 3. Cyclobutane 4. Furan.
84. What is respiratory quotient?
85. Write the overall reactions for photosynthesis.
86. Draw and label the parts of neuron.

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87. Draw the pictures of agranulocytes.
 88. List the theories postulated to explain the origin of life.
 89. What is ethnobotany? who coined the term?
 90. A is a blue coloured crystalline salt. On heating it loses blue colour and gives B. When water is added B gives A. Identify A and B. Write the equation.

- 91. What is meant by electric current?
 92. Name and define the unit of current.
 93. Which instrument is used to measure the electric current & how should it be connected in a circuit.
 94. Who discovered natural radioactivity? Define radioactivity.
 95. Write any three features of natural and artificial radioactivity.
 96. Give any 3 uses of radio isotopes in the field of agriculture.
 97. Consolidate the major differences between atoms and molecules.
 98. Define combination reaction.
 99. Give an example for combination reaction.
 100. Differentiate reversible and irreversible reaction.

- 101. What are synthetic auxins? Give examples.
 102. Define triple fusion.
 103. Name the secondary sex organs in male.
 104. Why did Mendel select pea plant for his experiment?
 105. Suggest measures to overcome the problems of an alcoholic.
 106. What are emergency hormones?
 107. List the functions of estrogen.
 108. List the functions of progesterone.
 109. State the effects of hybrid vigour in animal breeding.
 110. Differentiate between inbreeding and outbreeding.

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111. Write the functional group and suffix used for the following class of components.

Class of compounds	Functional group	Suffix used
Alcohol		
Aldehyde		
Ketone		
Carboxylic Acid		

112. Differentiate "undifferentiated and differentiated cells".
 113. State the preventive steps of child sexual abuse.
 114. Differentiate Type 1 and Type 2 diabetes mellitus.
 115. What precautions can be taken for preventing heart diseases.
 116. State the uses of Solar cell.
 117. What are the advantages of wind energy?
 118. Write about roof top rainwater harvesting.
 119. What are recharge pits in rainwater harvesting?
 120. What is 4R approach?

 121. What are the agents of soil erosion?
 122. Solar energy is a renewable energy. How?
 123. How are e-waste generated?
 124. What are the advantages of using biogas?
 125. What are the environmental effects caused by sewage?
 126. What are the consequences of deforestation?
 127. How are soil wastes managed?
 128. Enumerate the importance of forest.
 129. What are the consequences of soil erosion?
 130. State four steps for conservation of electrical energy.

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131. write notes on gears.
132. State the conditions for no Doppler effect in sound.
133. Define coefficient of real expansion and mention its unit.
134. Write the reaction which is used for the identification of alcohol.
135. Name the three types of neurons and find location.
136. Draw the diagram of thyroid and label its parts.
137. How can you determine the age of fossils?
138. State the applications of DNA fingerprinting technique.
139. What is stage scratch editor?
140. Describe rocket propulsion.

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141. What are the uses of simple microscope?
 142. What do you understand by the term ultrasonic waves.
 143. What are the medical applications of echo?
 144. What are the methods of preventing corrosions?
 145. Differentiate soaps and detergents.
 146. Differentiate between monocot root and dicot root.
 147. Draw the external structure of human heart and label the parts.
 148. Define ethnobotany write its importance.
 149. Explain about domestic electric circuits .
 150. Compare alpha, beta and gamma radiations.
 151. Give the salient features of modern atomic theory.
 152. Write any 4 applications of Avogadro's law.
 153. What is single displacement reaction give example.
 154. Explain types of double displacement reaction with example.
 155. Why are the rings of cartilage found in trachea of rabbit?
 156. write a note on (UTI) Urinary Track Infection.
 157. what is the biological significance of DNA?
 158. What precautions can be taken for preventing heart diseases?

159. Mention any two approaches for protections of an abused child.
 160. State the applications of universal law of gravitation.
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161. Differentiate convex and concave lens.
 162. Differentiate real and ideal gas.
 163. State Ohm's law.
 164. State the merits of LED bulb.
 165. State the advantages of LED television.
 166. Differentiate sound and light.
 167. Differentiate controlled and uncontrolled chain reaction.
 168. Differentiate nuclear fission and nuclear fusion.
 169. List various components of a nuclear reactor and give example for each.
 170. State the uses of nuclear reactor.
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171. Differentiate saturated and unsaturated solution.
 172. Differentiate light dependent and light independent reactions.
 173. Draw the diagram of male reproductive system of rabbit and label its parts.
 174. Draw the various types of neuron based on structure.
 175. What are the behavioural changes of drug uses?
 176. What are the smoking hazards and effects of tobacco?
 177. State the harmful effects of alcohol to health?
 178. State the control measures of AIDS.
 179. Differentiate renewable and non-renewable energy.
 180. solar energy is a renewable energy. How?

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