

19. Which of the following compounds is used as Drying Agent ?
 (a) Calcium oxide (b) Gypsum
 (c) Calcium chloride (d) None of the above
20. Which of the following serves as indicator of atmospheric pollution ?
 (a) Liverworts (b) Hornworts
 (c) Epiphytic lichens (d) Ferns

CLASS – X

INSTRUCTIONS

This is a **MODEL PAPER** of National Science Hunt (NSH). This question paper contains **20** questions. For each correct answer four marks will be awarded. There is no negative marking, for each unattempted question zero marks will be awarded. Use the provided OMR sheet for answering. Use HB pencil/ball point pen to darken the circles. If you wish to change your answer, erase the already darkened circle completely and then darken the appropriate circle. Use of calculator and mobile phone is strictly prohibited during the examination.

SYLLABUS

Physics : Light – Reflection And Refraction, Human Eye And Colourful World, Electricity, Magnetic Effects Of Electric Current, Sources Of Energy.

Chemistry : Chemical Reactions And Equations, Acids, Bases And Salts, Metals And Non-Metals, Carbon And Its Compounds, Periodic Classification Of Elements.

Biology : Life Processes, Control And Co-ordination, How Do Organisms Reproduce? Heredity And Evolution, Our Environment, Management Of Natural resources.

Chemical Reactions and Equations, Acids Bases and Salts, Metals and Non-Metals, Life Processes, Control and Coordination, Electricity, Magnetic Effect of Electric Current, Sources of Energy, Carbon and its Compound, Periodic Classification of Element, Control and Coordination, Reproduction in Organisms, Heredity and Evolution, Light- Reflection and Refraction, Human Eye and the Colourful world, Our Environment, Management of Natural Resources.

ANSWERS

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|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. d | 2. a | 3. b | 4. d | 5. d | 6. c | 7. b | 8. a | 9. b | 10. a |
| 11 d | 12. a | 13. c | 14. b | 15. d | 16. a | 17. b | 18. c | 19. a | 20. c |

- The three R's that will help us to conserve natural resources for long term use are
 (a) Recycle, Regenerate , Reuse (b) Reduce, Regenerate, Reuse
 (c) Reduce, Reuse, Redistribute (d) Reduce, Recycle, Reuse
- The ultimate source of energy is
 (a) Sun (b) Water
 (c) Uranium (d) Fossil fuels

3. The most important safety method used to protect home appliances from short circuiting or overloading is
 - (a) Earthing
 - (b) Use of fuse
 - (c) Use of wires of different colours
 - (d) Use of electric meter
4. What is the maximum resistance which can be made using five resistors each of $1/5$
 - (a) $1/5$
 - (b) 10
 - (c) 5
 - (d) 1
5. The image of our face in a plane mirror is
 - (a) Real
 - (b) Magnified
 - (c) Diminished
 - (d) None of these
6. The bluish colour of water in deep sea is due to
 - (a) The presence of algae and other plants found in water
 - (b) Reflection of sky in water
 - (c) Scattering of light
 - (d) Absorption of light by the sea
7. Which of the following changes is not a physical change ?
 - (a) Glowing of filament in bulb
 - (b) Combustion
 - (c) Boiling of water
 - (d) Sublimation
8. Which among the following statement(s) is(are) true?
Exposure of silver chloride to sunlight for a long duration turns grey due to
 - (i) The formation of silver by decomposition of silver chloride
 - (ii) Sublimation of silver chloride
 - (iii) Decomposition of chlorine gas from silver chloride
 - (iv) Oxidation of silver chloride
 - (a) (i) only
 - (b) (i) and (iii)
 - (c) (ii) and (iii)
 - (d) (iv) only
9. During respiration exchange of gases take place in
 - (a) Trachea and larynx
 - (b) Alveoli of lungs
 - (c) Alveoli and throat
 - (d) Throat and larynx

10. Oxygen liberated during photosynthesis comes from
 - (a) Water
 - (b) Chlorophyll
 - (c) Carbon dioxide
 - (d) Glucose
11. Lack of oxygen in muscles often leads to cramps among cricketers. This results due to
 - (a) Conversion of pyruvate to ethanol
 - (b) Conversion of pyruvate to glucose
 - (c) Non conversion of glucose to pyruvate
 - (d) Conversion of pyruvate to lactic acid
12. The name of the compound $\text{CH}_3 - \text{CH}_2 - \text{CHO}$ is
 - (a) Propanal
 - (b) Propanone
 - (c) Ethanol
 - (d) Ethanal
13. Ethanol reacts with sodium and forms two products. These are
 - (a) Sodium ethanoate and hydrogen
 - (b) Sodium ethanoate and oxygen
 - (c) Sodium ethoxide and hydrogen
 - (d) Sodium ethoxide and oxygen
14. Milky water of green coconut is
 - (a) Liquid of female gametophyte
 - (b) Liquid endosperm
 - (c) Liquid chalaza
 - (d) Liquid nucellus
15. Testes are masses of coiled
 - (a) Uriniferous tubules
 - (b) Malpighian tubules
 - (c) Vasa efferentia
 - (d) Seminiferous tubules
16. Graffian follicles are found in the
 - (a) Ovary of mammal
 - (b) Ovary of frog
 - (c) Testis of mammal
 - (d) Thyroid of mammal
17. When an alkali metal combines with halogen, it will form
 - (a) Always covalent bond
 - (b) Always ionic bond
 - (c) May be covalent or ionic
 - (d) Will not combine at all
18. Insulation of electric wire is done by
 - (a) Isoprene
 - (b) Neoprene
 - (c) Vinyl chloride
 - (d) Buta-1,3 diene