

Class: 10

Subject: Science – Set 2

Maximum Marks: 50

Time Duration: 2 hrs

**General Instructions:**

**Read the questions carefully before answering:**

**Questions 1 to 10 carry 1 mark each. Answer in 1 or 2 sentences**

**Questions 11 to 20 carry 2 marks each. Answer in 3 or 4 sentences**

**Questions 21 to 25 carry 3 marks each. Answer in 5 or 6 sentences**

**Questions 26 carries 5 marks each.**

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Q1. Wings of an insect and a bird are example of \_\_\_\_\_?

- a) Analytic organs
- b) Vestigial organs
- c) Analogous organs
- d) Homologous organs

Q2. Light travels fastest through which of the following materials?

- a) Air
- b) Glass
- c) Water
- d) None of the above

Q3. Which phenomenon is responsible for the twinkling of stars?

- a) Atmosphere reflection
- b) Reflection
- c) Atmosphere refraction
- d) All of the above

Q4. Which of the following is used for filaments of electric bulbs?

- a) Copper
- b) Alloys
- c) Tungsten
- d) Aluminium

Q5. The frequency of AC in India is \_\_\_\_\_?

- a) 220 Hz
- b) 100 Hz
- c) 60 Hz
- d) 50 Hz

Q6. A trait in an offspring is influenced by \_\_\_\_\_?

- a) DNA of father gamete
- b) DNA of both father and mother gamete
- c) DNA of mother gamete
- d) None of the above

Q7. The potential difference between two terminals can be measured by \_\_\_\_\_?

- a) a rheostat
- b) an ammeter
- c) an ohm-meter
- d) a voltmeter

Q8. Which country is the leader in harnessing wind energy?

- a) Germany
- b) India
- c) USA
- d) Canada

Q9. When light passes through a prism, the colour which deviates the least is \_\_\_\_\_?

- a) Green
- b) Red
- c) Violet
- d) Blue

Q10. The line perpendicular to the reflective surface is the \_\_\_\_\_?

- a) Line of incidence
- b) Line of reflection
- c) Line of refraction
- d) Normal

Q11. What is direct current (DC) and alternating current (AC)?

Q12. Write two functions of chromosomes.

Q13. Define Coulomb's law?

Q14. Distinguish between renewable and non-renewable sources of energy.

Q15. Write two uses of each of concave mirror and convex mirror?

Q16. What do you understand by global warming?

Q17. What is solar cooker? Illustrate its working with the help of a neat and labeled diagram.

Q18. What is a food chain? What forms the basis of every food chain?

Q19. Why do we prefer a convex mirror as a rear-view mirror in vehicles?

Q20. Write any two disadvantages of burning of fossil fuels?

Q21. Explain how is the sex of the child determined in human beings?

Q22. Describe the three R's that are used to save the environment?

Q23. Which one is dangerous 'High Current' or 'High Voltage'? Explain.

Q24. Distinguish between real and virtual images?

Q25. What is the difference between an electric motor and generator?

Q26. Explain the defects of vision and their correction?