

**Science****Multiple Choice Questions****15 X**  
**1.0=15.0**

- 1) While shaping gold into ornaments, which part of the flame directly used by goldsmith? **1.0**
- A) Non-luminous  
B) Luminous  
C) Innermost zone  
D) Whole flame
- 2) Penicillin, the first antibiotic, was discovered by which scientist? **1.0**
- A) Louis Pasteur  
B) Robert Koch  
C) Alexander Fleming  
D) Edward Jenner
- 3) Which type of friction occurs when an object moves through air or water? **1.0**
- A) Sliding friction  
B) Rolling friction  
C) Fluid friction  
D) Static friction
- 4) The gas released during the preparation of bread is **1.0**
- A) oxygen  
B) nitrogen  
C) carbon dioxide  
D) sulphur dioxide
- 5) The loudness of sound is determined by the **1.0**
- A) amplitude of vibration  
B) ratio of amplitude and frequency of vibration  
C) frequency of vibration  
D) product of amplitude and frequency of vibration
- 6) Oil refinery is ----- **1.0**
- A) Wood  
B) Barauni  
C) Produce more energy
- 7) What happens to the mass of the cathode during electroplating? **1.0**
- A) It decreases  
B) It increases  
C) It remains the same  
D) It first decreases then increases

- 8) Paheli dug two pits, A and B, in her garden. In pit A, she put a polythene bag packed with some agricultural waste. In pit B, she dumped the same kind of waste but without packing it in a polythene bag. She, then covered both the pits with soil. What did she observe after a month? 1.0
- A) Waste in pit A degraded faster than that in pit B.
  - B) Waste in pit B degraded faster than that in pit A.
  - C) Waste in both pits degraded almost equally.
  - D) Waste in both pits did not degrade at all.
- 9) Burning of hydrogen is an example of 1.0
- A) slow combustion
  - B) rapid combustion
  - C) explosion
  - D) spontaneous combustion
- 10) Paddy can be grown in 1.0
- A) summer season
  - B) autumn
  - C) rainy season
  - D) winter
- 11) Out of the following, which fuel is best used in the homes ? 1.0
- A) Wood
  - B) CNG
  - C) LPG
  - D) Kerosene oil
- 12) Which statement is true about rolling friction compared to sliding friction? 1.0
- A) Rolling friction is greater than sliding friction
  - B) Rolling friction is equal to sliding friction
  - C) Rolling friction is less than sliding friction
  - D) Rolling friction does not exist
- 13) Boojho's uncle has set up an electroplating factory near his village. He should dispose off the waste of the factory 1.0
- A) in the nearby river.
  - B) in the nearby pond.
  - C) in the nearby cornfield.
  - D) according to the disposal guidelines of the local authority.
- 14) The unit of measuring pressure is 1.0
- A) newton
  - B) newton/metre
  - C)  $\text{metre}^2$
  - D)  $\text{metre}^2/\text{newton}$

- 15) During dry weather, rubbing a plastic scale with dry hair, attracts small pieces of paper. This is due to **1.0**
- A) gravitational force  
 B) electrostatic force  
 C) frictional force  
 D) muscular force

**Short Answer Questions (2 marks)**

**7 X  
2.0=14.0**

- 16) The caterpillars or the pupa of silkworm looks very different from the adult moth. The features that are present in the adult are not found in these young ones. Then, what happens to the tadpoles or caterpillars thereafter? **2.0**
- 17) Have you ever thought about why the sole of your shoes is grooved ? **2.0**
- 18) What is fermentation ? **2.0**
- 19) What is the difference between noise and music? Can music become noise sometimes? **2.0**
- 20) What kind of eyes do the insects have ? **2.0**
- 21) What are the types of Bacteria ? **2.0**
- 22) I have heard that some of the endemic species may vanish. Is it true? **2.0**

**Short Answer Questions (4 marks)**

**9 X  
4.0=36.0**

- 23) How does the use of natural gas compare to coal and petroleum in terms of environmental impact? **4.0**
- 24) What is the process of gasification of coal, and how is it used? **4.0**
- 25) What is hypermetropia ? How is it caused ? How can it be corrected ? Draw diagram to show defective eye and its correction. **4.0**
- 26) Why does a candle flame appear yellow, and what does it signify about the combustion process? **4.0**
- 27) What is coal tar, and how is it used in industries? **4.0**
- 28) How does atmospheric pressure change with altitude, and what are its effects on humans? **4.0**
- 29) The diagrams is given showing reproduction in an organism. Observe the diagrams and answer the following questions. **4.0**
- Name the organisms.
  - Name the type of reproduction.
  - Label the diagram.
  - Explain the reproduction process.



- 30) What is regeneration, and how does it help in asexual reproduction in animals? **4.0**
- 31) What are the advantages of using LPG over other fuels like wood or coal? **4.0**

**Short Answer Questions (5 marks)**

**3 X  
5.0=15.0**

- |            |   |            |
|------------|---|------------|
| <b>32)</b> | How does a plough work?                                     | <b>5.0</b> |
| <b>33)</b> | Give some uses of LED. How should LED be connected?         | <b>5.0</b> |
| <b>34)</b> | List the steps involved in crop production in a flow chart. | <b>5.0</b> |

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