

**Science and Technology - II****MCQ Single Correct****5 x 1=5**

- 1) Incomplete combustion of fuels leads to formation of ..... **1.0**
- A) carbon dioxide
  - B) carbon monoxide
  - C) carbon tetrachloride
  - D) All the above
- 2) The atomic energy plant at Chernobyl was used only for generating ..... **1.0**
- A) electricity
  - B) solar power
  - C) atomic energy
  - D) agriculture
- 3) System of classification based on evolution was brought into practice by ..... and ..... **1.0**
- A) Darwin, Mendel
  - B) Lamarck, De Vries
  - C) Morgan, Mayor
  - D) Dobzansky, Meyer
- 4) ..... are mixed with waste materials at land-filling sites for quicker decomposition. **1.0**
- A) Microbes
  - B) Bioreactors
  - C) Fungi
  - D) Worms
- 5) Carrot and raddish undergoes ..... with the help of their roots. **1.0**
- A) vegetative propagation
  - B) fragmentation
  - C) budding
  - D) regeneration

**Very Short Description****5 x 1=5**

- 6) Find the odd one out : **1.0**  
Edible oil, crude oil, LPG, CNG
- 7) Name the following: **1.0**  
Steps of anaerobic respiration.
- 8) One word is incorrect in the following statement. Change it to make the statement correct: **1.0**  
Herdmania has notochord in only tail region and hence it is called Hemichordate.
- 9) Which is the famous book written by Charles Darwin? **1.0**
- 10) What is the function of Xylitol and Aspartame? **1.0**

**Short Description****5 x 2=10**

- 11) What is the type of asexual reproduction shown in the diagram below? **2.0**
- 12) If a piece of bread is kept in a container in moist place for 2-3 days, (1) What will you see? (2) Write **2.0**  
scientific name and a character of the organism you may observe.
- 13) Which different types of cheese are used in western food like pizza, burger, sandwich, etc? **2.0**
- 14) Which sugar is present in semen? Why? **2.0**
- 15) How the excessive use of social media and technology is proving harmful? **2.0**
- 16) Sketch two ways in which solar cells can be connected. Also draw the diagrams to show the **2.0**  
arrangement of solar cells to form solar panel and solar array.
- 17) Give scientific reasons: **2.0**  
Darwin's work on evolution has been a milestone.
- 18) From where do we obtain the lipids? **2.0**

**Medium Description****5 x 3=15**

- 19) How the bacteria present in soil and root nodules of leguminous plants are useful? **3.0**
- 20) Give Scientific Reason: Cell division is one of the important properties of cells and **3.0**  
organisms.
- 21) Explain the process of formation of complex proteins. **3.0**
- 22) Distinguish between : Human male and Human female reproduction system **3.0**
- 23) Reorganize the following food chain. Describe the ecosystem to which it belongs. **3.0**  
Grasshopper - Snake - Paddy field - Eagle - Frog.
- 24) How can disasters be classified depending upon various criteria? **3.0**
- 25) Animals like ghariyal and crocodile live in water as well as on land. Are they amphibians or **3.0**  
reptiles?

- 26) What will you do? Why ? 3.0  
Child of your neighbour is addicted to tobacco chewing.

**Long Description**

**1 x 5=5**

- 27) Why some of the organs in human body are most valuable? 5.0
- 28) Explain in brief-Lamarck's principle of 'use or disuse of organs'. Give two examples. OR What are acquired characters? 5.0

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