**ECOECIS**

**D-14**

**BLE QUALIFYING PRE-BOARD EXAMINATION**

**Class: Eight**

**Sub: Science & Technology Time: 2 hrs *F.M:50***

**Attempt all questions**.

**Multiple Choice Questions. [10×1=10]**

1. **Tick the correct alternative of the following questions.**

**a. What is the term given to the *‘predictive outcome’* in scientific research?**

i. Truth ii. Evidence

iii. Report iv. Hypothesis

**b. A machine that helps to make other visual images:**

i. Photocopy ii. Printer

iii. Router iv. Wi-Fi devices

**c. Who coined the term *“Bio-diversity”?***

i. A.C. Rosen ii. Edward Wilson

iii. W.G Rosen iv. Albert Einstein

**d. In-situ conservation refers to the conservation of species:**

i. Inside a laboratory ii. In their natural habitat

iii. In zoos and botanical gardens iv. In a controlled environment

**e. Mechanical advantage (MA) is defined as ……………….**

i. ii.

iii. Load + Effort iv. Load **×** Effort

**f. How does the heat transmit in a vacuum?**

i. Conduction ii. Convection

iii. Transpiration iv. Radiation

**g. Which of the following is a natural magnet?**

i. Electromagnet ii. Limestone

iii. Nickel iv. Lodestone

**h. Which of the following metal is not an example of magnetic materials?**

i. Iron ii. Nickel

iii. Cobalt iv. Mercury

**i. Sodium chloride is an example of ……………….**

i. Neutral salt ii. Acidic salt

iii. Basic salt iv. Both ‘i’ and ‘ii’

**j. Water that easily gives lather with soap is called …………………..**

i. Hard water ii. Soft water

iii. Dirty water iv. Clean water

**Very Short Type Questions. [8×1=8]**

1. What is the main function of the mitochondria in a cell?
2. What do you mean by sustainable development?
3. Define tissue culture.
4. Write the SI unit of the amplitude and intensity of the sound.
5. What is magnetic field?
6. Who introduced modern periodic table?
7. Write any one effect of acid rain.
8. Write any two physical properties of metals.

**Short Answer Type Questions. [8×2=16]**

1. Write any two precautions to be taken on experimental works.
2. Mention any four advantages of ATM.
3. What are the limitations of Wi-Fi? Write any two of them.
4. Define ex-situ conservation with an example.
5. Draw the figure of a complete flower and label its main parts.
6. A tank of height 8 m is filled with water. Calculate the pressure on the tank at its bottom.
7. Write any two ways of demagnetization.
8. Differentiate between *‘Pre-cambrian era’* and *‘Cenozoic era’* in two points.

**Long Answer Type Questions. [4×4=16]**

1. Define cybercrime. Mention its types. How would you protect yourself against cybercrime?
2. What are micro-organisms? Write three positive and three negative effects of micro-organisms.
3. Differentiate between *‘pollination’* and *‘fertilization’* in two points. Give an example of organism which reproduces by following processes:

i. Fission ii. Budding

iii. Fragmentation iv. Vegetative propagation

1. Study the following table and answer the following questions.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of element** | **A** | **B** | **C** |
| **Electronic configuration** | **2,8,1** | **2,6** | **2,8,8** |

1. Name the element ‘A’ and write the valency of ‘B’.
2. Why is the element ‘C’ called an inert gas?
3. Write the name and the molecular formula of the compound formed when the element ‘A’ combines with element ‘B’.

**-The End-**