BOARD QUESTION PAPER : MARCH 2018
SCIENCE AND TECHNOLOGY - II

Time: 2 Hours            Total Marks: 40

Note:
i. All questions are compulsory.
ii. Draw well-labelled diagrams wherever necessary.

SECTION B

1. (A) (a) Rewrite the following statements with suitable words in the blanks: [2]
   i. There are _______ pairs of chromosomes in human being.
   ii. _______ is a functional group of alcohol.

   (b) State whether the following statements are true or false: [2]
   i. There are two sets of chromosomes in zygote.
   ii. All animals and fungi are autotrophs.

   (c) Find the odd one out: [1]
   Amoeba, Euglena, Planaria, Paramoecium.

   (B) Rewrite the following statements by choosing the correct alternatives: [5]
   i. Acetic Acid _______.
      (A) is insoluble in water  (B) turns blue litmus red
      (C) is pale yellow in colour  (D) none of the above

   ii. _______ type of reproduction occurs in Hydra.
      (A) Binary fission  (B) Multiple fission
      (C) Budding  (D) Fragmentation

   iii. Solution of Aluminium sulphate in water is _______.
      (A) Green  (B) Colourless
      (C) Pink  (D) Blue

   iv. Reaction of iron nail with copper sulphate solution is a _______ reaction.
      (A) Combination  (B) Displacement
      (C) Double displacement  (D) Decomposition

   v. The loss of water in the form of water vapour through stomata on leaves is known as _______.
      (A) Distillation  (B) Diffusion
      (C) Osmosis  (D) Transpiration

2. Answer the following questions (any five): [10]
   i. Name four plant hormones.
   ii. Why are metals used for making cooking vessels?
   iii. Suggest control measures of noise pollution.
   iv. What are alloys? Give two examples.
   v. Classify the following as voluntary actions and involuntary actions.
      sneezing, throwing ball, heart beats, writing.
   vi. Name any four life processes in living things.
3. **Answer the following questions (any five):**
   i. Population explosion is the root cause for depletion of natural resources. Explain.
   ii. Human tail bone is a vestigial organ. Explain.
   iii. What is anodising? Give its applications.
   iv. Write the changes that occur in the age group 11 to 21 years in boys.
   v. Name different types of neurons and give one function of each.
   vi. How is sex determined in the human beings?

4. **Answer any one of the following questions:**
   i. What are covalent compounds? Write any three features and give two examples.
   ii. Draw well labelled diagram of human excretory system. Write the functions of:
      a. Kidney
      b. Ureter
      c. Urinary bladder.