

# 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):** [15]
- Population explosion is the root cause for depletion of natural resources. Explain.
  - Human tail bone is a vestigial organ. Explain.
  - What is anodising? Give its applications.
  - Write the changes that occur in the age group 11 to 21 years in boys.
  - Name different types of neurons and give *one* function of each.
  - How is sex determined in the human beings?

4. **Answer any *one* of the following questions:** [5]
- What are covalent compounds? Write any *three* features and give *two* examples.
  - Draw well labelled diagram of human excretory system. Write the functions of:
    - Kidney
    - Ureter
    - Urinary bladder.

