



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, Paramecium.
- (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]**

- 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:**[5]**

- 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.