

**PARSHVAA EDU
MENTOR**

Std.: 10th (ENGLISH)

Sub: Science II

Time: 2 hour

ABC School

Marks: 40

Chapters: All

SECTION – B

Q.1. (A) State whether the following statement is TRUE or FALSE. (3)

- (1) The solar cells are made up of silicon, that traps the solar energy of the sun.
- (2) Prostate glands produce sperms.
- (3) Waste generated from useless electronic products.

(B) Find the odd one out (2)

- (1) Bronchioles, Stomach, Larynx, Trachea.
- (2) Binary fission, Budding, Fragmentation, Multiple fission

(C) Rewrite the following statements by selecting the correct options: (5)

- (1) Iron is..... (Mar'14).
(a) less reactive than zinc (b) less reactive than aluminium (c) less reactive than copper (d) less reactive than graphite
- (2) Fission, budding and spore formation are _____ type of reproduction.
(a) Vegetative propagation (b) sexual (c) asexual (d) fertilization
- (3) Ethanoic acid (Oct'14)
(a) is odourless (b) has a pungent odour of vinegar (c) has smell of rotten egg (d) has pleasant odour
- (4) In human beings there are chromosomes.
(a) 46 (b) 23 (c) 52 (d) 24
- (5) A redox reaction is a reaction in which
(a) oxidation takes place (b) reduction takes place (c) oxidation and reduction take place simultaneously (d) oxygen is removed

Q.2. Answer the following sub-questions (any five): (10)

(1) Draw well labelled diagrams:

Draw diagram of human heart.

(2) Write short notes on the following:

Homologous organs

(3) Differentiate between the following:

Differentiate between Toilet soap and Laundry soap. (Mar'15)(Oct'15)

(4) Explain the following reactions with the help of balanced chemical equations:

Magnesium is treated with dil. Sulphuric acid.

(5) Answer the following :

State any four objectives of sustainable development. (Mar"15)

(6) Give scientific reason:

Carbon can form a large number of Compounds.

Q.3. Answer any five of the following subquestions:

(15)

- (1) Classify the following compounds used by you in terms of their origin (plants, animals, inorganic) : oil, sugar, ghee, cotton, plastic, common salt, copper, LPG, vinegar.
- (2) How is water transported from roots to the aerial parts of the plants?
- (3) What happens when Mercuric oxide is heated.
- (4) Describe the structure of central nervous system in human beings
- (5) Explain with two examples, movements in plants which are growth independent. (Oct"14)
- (6) Why are the processes of meiosis and fertilization necessary in sexual reproduction?

Q.4. Write the answer of any one question given below:

(5)

- (1) Describe the process of preparation of aluminium by the electrolysis of alumina.
- (2) Write in detail about sex determination in human beings.(Oct"15)(Mar"16)