BOARD QUESTION PAPER : MARCH 2016 SCIENCE AND TECHNOLOGY

Time: 2 Hours

Total Marks: 40

Note:

- i. Draw well-labelled diagrams wherever necessary.
- ii. All questions are compulsory.
- iii. Students should write the answers of questions in sequence.

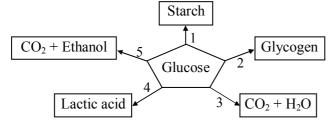
SECTION B

1.	(A) i.	Answer the following sub-questions : Fill in the blank and rewrite the completed statement : is the largest gland in the body.	[5]
	ii.	Find the odd one out and write it : vagina, uterus, vas deferens, ovary	
	iii.	State whether the statement is true or false : Aquatic animals breather at a slower rate than the terrestrial animals.	
	iv.	Considering the relationship in the first pair, complete the second pair : rr : Homozygous : : Rr :	
	V.	Name the following: Main ore of aluminium	
	(B) i.	Choose the <i>correct</i> alternative and rewrite the following: 	[5]
		(A) Hydrogen (B) Chlorine	
		(C) Oxygen (D) Nitrogen	
	ii.	For binary fission, Amoeba requires parent cells.	
		(A) Three (B) Two	
		(C) One (D) Zero	
	iii.	A solution of CuSO ₄ in water is in colour.	
		(A) Pink (B) Blue	
		(C) Colourless (D) Green	
	iv.	Raisins are formed by drying grapes. The process that takes place during formation of raisins from grapes is	
		(A) Absorption (B) Osmosis	
		(C) Diffusion (D) Dehydration	
	V.	Ethanoic acid has a odour.	
		(A) rotten eggs (B) pungent	
		(C) vinegar-like (D) mild	
2.	Ansi	ver the following questions (any five):	[10]
2.	i.	Differentiate between voluntary and involuntary movements.	[10]
	ii.	What is the peculiarity of the 'DNA' structure?	
	iii.	Draw a well-labelled diagram of longitudinal section of a flower.	
	iv.	Give scientific reason : Roots of plants grow away from light.	
	v.	Write any two measures to conserve water.	
	vi.	What are fossils?	
3.	Answer the following questions (any five):		[15]
	i.	What is an alloy? Give two examples with their chemical composition.	
	ii.	How is sex determined in human beings?	
	iii.	State the different types of neurons. Explain their functions.	

- iv. What is the '3R' mantra? Write its significance.
- v. Metal A has electronic configuration (2, 8, 1) and metal B has (2, 8, 8, 2). Which is more reactive? Why? Identify these metals.
- vi. Explain the disadvantages of a large family size.

4. Answer the following question (any one):

i. Given below are the end products of different reactions involving glucose.



Write the reaction number in front of the following :

- a. Anaerobic reaction =
- b. Reaction in the human muscles =
- c. Aerobic respiration =
- d. Reaction in the plant cells =
- e. Reaction in the liver =
- ii. What is a homologous series? State any four characteristics of a homologous series.

[5]