Science and Technology

BOARD QUESTION PAPER : JULY 2017 SCIENCE AND TECHNOLOGY

m.

A 11

Time	Draw well-labelled diagrams wherever necessary. All questions are compulsory. Students should write the answers of questions in sequence. <u>SECTION B</u>			Total Marks: 40			
Note: i. ii. iii.	Draw well-labelled diagrams wherever necessary. All questions are compulsory. Students should write the answers of questions in sequence.						
		<u>SEC</u>	CTION B				
Q.1.	(a) i.	Fill in the blanks and rewrite the cor artery takes the blood to the h	npleted state	genation.	[5] [2]		
	i.	Dominant character masks the recessiv		r false:	[2]		
	(c)	5			[1]		
		For photosynthesis substance (A) Carbon dioxide	is not essenti (B)	al. Chlorophyll	[5]		
	ii.	When Hydra becomes matured,	_ takes place (B) (D)	e in it. Regeneration Binary fission			
	iii.	 A solution of Al₂(SO₄)₃ in water is (A) Green (C) Blue 	. (B) (D)	Colourless Pink			
	iv.	During respiration gas is give(A) Oxygen(C) Carbon dioxide	n out. (B) (D)	Hydrogen Nitrogen			
	V.	The formula of ethanoic acid is(A) HCOOH(C) CH₃COOH	· (B) (D)	C ₂ H ₅ COOH None of the above			
Q.2.	Atte i. ii.						
	iii. iv. v.	Differentiate between: Detergents and Soaps. How can we save electrical energy in day to day life? Give scientific reasons:					
	vi.	Consuming iodized salt in day to day diet is essential. What is a chromosome? How many pairs of autosomes are present in human beings?					

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Q.3. Attempt any five of the following:

- i. An element X on reacting with oxygen forms an oxide X_2O . This oxide dissolves in water and turns red litmus blue. State whether element X is a metal or a non-metal. Explain with a proper example.
- ii. Why does menstruation occur?
- iii. Define functional group and complete the following table:

Sr. No.	Functional group	Compound	Formula
a.			C ₂ H ₅ OH
b.			CH ₃ CHO

- iv. Name one metal each occurring as:
 - a. A sulphide
 - b. A carbonate
 - c. An oxide
- v. What is a reflex action? Explain it with two examples.
- vi. Why are family planning measures needed in our country?

Q.4. Attempt any one of the following:

- i. Explain the human excretory system with the help of a suitable diagram.
- ii. How is sex determined in the human being? Explain with the help of a diagram.

[5]