

— SCHOOL SECTION —

STD : X SSC

**PRELIM EXAM - 2**

TIME : 2:00 Hrs

SUB : SCIENCE II

DATE : 23<sup>rd</sup> January, 2026

MM : 40

1. It is necessary to solve all the questions.
2. Draw neat and labelled diagrams wherever necessary.
3. Start every new main question on separate page.
4. Figures on the right indicate marks.
5. For each Multiple Choice Question (1.B), ONLY first answer will be considered.
6. Write answer of each MCQ with option number.  
Eg. i) a..... ii) c.....

**Q.1(A) Choose the proper alternative and fill in the blanks:**

5

- (1) Which of the following is not produced during anaerobic respiration in unicellular fungus? The following is correct for the process of anaerobic respiration?  
(a)  $C_2H_5OH$  (b)  $H_2O$  (c)  $CO_2$  (d) ATP
- (2) Which of the following is more environmentally friendly?  
(a) Burning of diesel (b) burning of coal (c) burning of charcoal (d) burning of wood
- (3) Which of the following animals can regenerate its broken body part?\*  
(a) Cockroach (b) Frog (c) Sparrow (d) Star fish
- (4) National Disaster Response Force has been established as per the \_\_\_\_\_.  
(a) Disaster protection Act, 2005  
(b) Disaster management Act, 2006  
(c) Disaster management Act, 2005  
(d) Disaster protection Act, 2006
- (5) Which of the following is not required in making of bread?  
(a) water (b) yeast (c) flour of cereal (d) Lactobacilli

**(B) Attempt the following:**

5

**(1) Find the odd one out:**

1

Tehari, Koyana, Srishailam, Tarapur

**(2) State 'True' or 'False', if 'False' correct it:**

1

Disaster is a very slow process.

**(3) Write the correlated terms:**

1

Fermentation in yeast : Alcohol :: Fermentation in erythrocytes :

**(4) Name the following:**

1

Methods of family planning.\*

**(5) Answer the following in one line:**

1

To which class does bat belong?

**Q.2(A) Give reasons:(Any Two)**

4

- (1) Cell division is one of the important properties of cells and organisms.\*
- (2) Only humans can conserve and improve the quality of nature.
- (3) Hydroelectric energy, solar energy and wind energy are called renewable energies.

**(B) Answer the following:(Any Three)**

6

- (1) Draw a neat diagram of the structure of chromosome and label the parts:
  - (a) Centromere
  - (b) p - arm
- (2) Which are the reasons for endangering the many species of plants and animals? How can we save those?\*
- (3) What for probiotic food is famous?\*
- (4) Use appropriate words to complete the diagram.



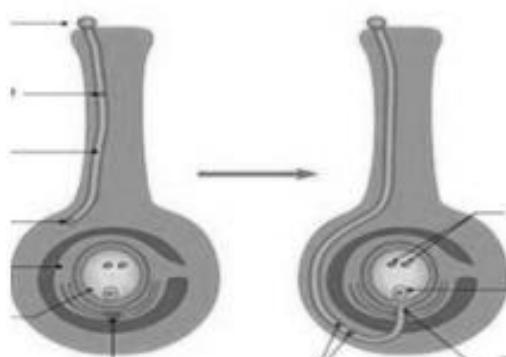
**(5) (i) Which different microbes are useful to us?**

**(ii) Which different products can be produced with the help of microbes?\***

**Q.3 Answer the following:(Any Five)**

15

- (1) (a) Identify the type of fertilization shown in the diagram below:  
(b) Label the diagram properly:

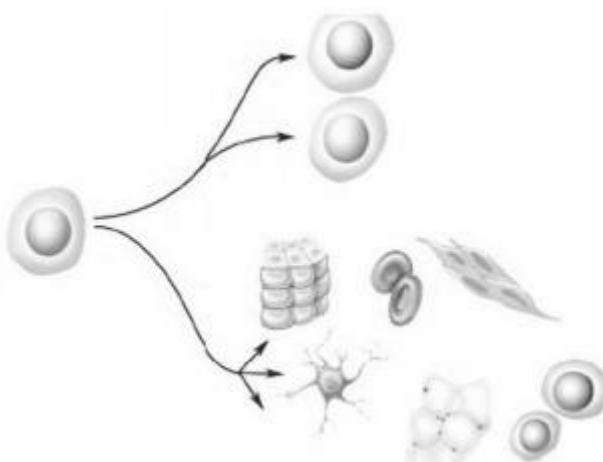


**(2)** Write short notes on Biodiversity.\*

**(3)** (1) Which process is shown in the given diagram?

(2) What is the importance of this process?

(3) Which organs can be transplanted by this process?



**(4)** Which different hormones control the functions of human reproductive system through chemical coordination?\*

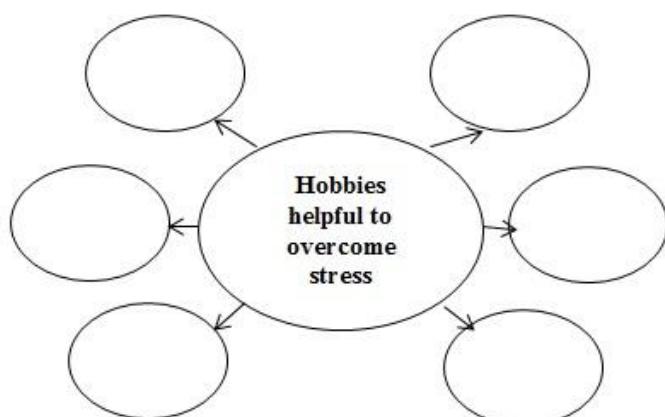
**(5)** Complete the given paragraph by filling the blank spaces from the option given in the bracket: [oxygen, pyridines, mechanical, CO<sub>2</sub>, petroleum, fatal, polyester, norcadia] Spilling of \_\_\_\_\_ oil occurs in ocean due to various reasons. This oil may prove \_\_\_\_\_ and toxic to aquatic organisms. It is not easy to remove the oil layer from surface of water by \_\_\_\_\_ method. However, bacteria like pseudomonas spp. and Alcanivorax borkumensis have the ability to destroy the \_\_\_\_\_ and other chemicals. Hence, these bacteria are used to clear the oil spills, these are called as hydrocarbonoclastic bacteria (HCB). HCB decompose the hydrocarbons and bring about the reaction of carbon with \_\_\_\_\_. \_\_\_\_\_ and water is formed in this process.

**(6)** i) Explain the term stem cell.

ii) Explain the term cloning?

iii) Explain the term genetically modified crops.

**(7)** Complete the following chart:

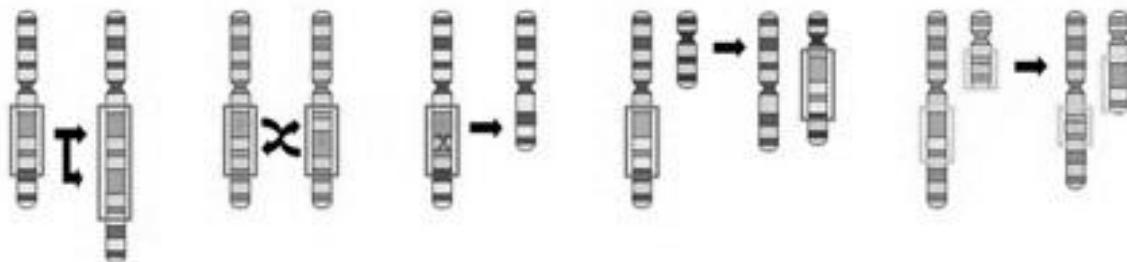


**(8)** Which are the objectives of disaster management?\*

**Q.4 Answer the following:(Any One)**

**5**

**(1)** Identify the type of mutations in the below diagram:



**(2)** Write the characters of each of the following animals with the help of classification chart.\*

1. Frog
2. Lizard



**....All The Best....**



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— SCHOOL SECTION —

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