

**COMMON SECOND MID-TERM TEST - 2019**

**K**

Standard XII

Reg.No. : 

--	--	--	--	--

**BIOLOGY**

Marks: 45

Time: 1.30 hours.

**Part - I (Bio-Botany) 23 marks  
Section - A**

- I. Choose the correct answer:** 5 x 1 = 5
- During decomposition detritus are breakdown in to simple organic matter. Find the correct order from these steps.  
I) Catabolism II) Leaching III) Fragmentation IV) Mineralisation and V. Humification  
a) II, I, III, IV, V    b) IV, V, II, III, I    c) V, IV, III, II, I    d) III, I, II, V, IV
  - Which one of the following is not an In-Situ conservation?  
a) Arboreta    b) National parks    c) Biosphere Reserves    d) Sacred groves
  - With reference to Heterosis identify incorrect statements.  
I. Superiority of parents over F1 hybrids  
II. Vigour refers to increase of yield, disease resistance and growth  
III. Pseudo heterosis refers to superiority only in yield and adaptation  
IV. Vegetative propagation used to maintain hybrid vigour.  
a) I and II    b) III and IV    c) I and IV    d) I and III
  - A plant traps Twenty thousand Joules of energy from the Sun, if then what would be the energy received by Tertiary consumer.  
a) 2 Joules    b) 20 Joules    c) 0.2 Joules    d) 200 Joules
  - Which of the following referred as conservation strategy?  
I. Carbon Sequestration II. Afforestation III. Introducing alien species  
IV. Deforestation    V. Appiko movement  
a) I, II and V    b) I, II and III    c) I, II, IV    d) II, III and IV

**Section - B**

- II. Answer any 2 questions:** 2 x 2 = 4
- Differentiate In-Situ and Ex-Situ conservation.
  - Green revolution is bon or bane. Justify your reason.
  - Write the objective of Montreal and Kyoto Protocol.
  - "Use ecosystem but don't lose ecosystem" can you add one more Slogan for Nature or Environment or Go green concept.

**Section - C**

- III. Answer any 3 questions: (Ques.No.13 is compulsory)** 3 x 3 = 9
- What do you understand from the 10% law proposed by Lindeman?
  - You know lot of solution for global warming, Ozone depletion and invasion of Alien species. Here you suggest one solution for each of these three problems.
  - Write the benefits of rainwater harvesting.
  - Write the objectives of Plant Breeding.

**Section - D**

- IV. Answer the following:** 1 x 5 = 5
- How can you achieve organic farming? Write your implementations for your agricultural field. *(or)*  
Write any five practices in your daily life to justify, "If we fail to protect environment, we will fail to save posterity".

5 x 1 = 5

**I. Choose the correct answer:**

- Hepatitis-B vaccine is  
a) combined vaccine    b) recombinant antigen vaccine  
c) polysaccharide vaccine    d) oral vaccine
- Red list contains data or information on  
a) all economically important plants  
b) plants whose products are in international trade  
c) threatened species    d) marine vertebrates
- Which one of the following forest is known as "Lungs of the Planet Earth"?  
a) Tundra    b) Rain forest of North East India  
c) Taiga forest    d) Amazon rain forest
- Match the following and choose the correct answer:  

AQI	Air Pollution Level
1. 201 - 300	i) Unhealthy
2. 101 - 150	ii) Moderate
3. 51 - 100	iii) Very unhealthy
4. 151 - 200	iv) Unhealthy for sensitive groups
- The most suitable for production of recombinant interferons.  
a) E.Coli    b) Bacillus subtilis  
c) Saccharomyces cerevisiae    d) Streptococcus pygons

**Section - B**

**II. Answer any 3 questions:**

- Define Oligopotency.
- What is Jhum cultivation?
- What are the strategies involved in Gene therapy?
- List out the Biogeographical regions of India.
- What do you know about Ecosan toilet?

**Section - C**

**III. Answer any 2 questions: (Ques.No.12 is compulsory)**

- Compare and contrast In-Situ conservation.
- Haemophilia is due to lack of clotting factor VIII. Suggests a method of treating Haemophilia.
- Air pollution level is hazardous in your locality. What are the control measures you will to reduce it?

**Section - D**

**IV. Answer the following:**

- Describe the mechanism of Cloning.

*(or)*

Biodiversity decline is a major threat to a country. Give your valuable reasons for decline.

\*\*\*\*\*

EVERWIN MATRIC. HR. SEC. SCHOOL

12.11.19 SECOND MID TERM TEST

Std:XII (A-E)

Biology  
Bio-Botany

I. Choose the correct answer:

1. \_\_\_\_\_ have multiple properties such as emollient, antibacterial, antioxidant, antifungal and antiseptic.

- a) Aloe vera leaves                      b) Neem leaves  
c) Henna                                      d) Papaya leaves

Section-B

II. 7. What are psychoactive drugs with examples. Mention the uses.

Section-C

III. 13. Explain the uses of Turmeric.

Section-D

IV. 14. Explain the Traditional systems of medicines.

Bio-Zoology

I. Choose the correct answer:

1. Which is the symbiotic nitrogen fixing bacteria?

- a) Nostoc    b) Rhizobium    c) Azobacter    d) Mycorrhiza

2. Which is GEM?

- a) Nostoc    b) Anabaena                      c) Pseudomonas putida  
d) Rhizobium

3. Which organism is used to make alcoholic beverages?

- a) E.coli                                      b) Pseudomonas putida  
c) Saccharomyces cerevisiae    d) Lacto bacillus

4. From which organism cry gene is taken?

- a) Lacto bacillus                      b) Clostridium  
c) Yeast                                      d) Bacillus Thuringiensis

Section-B

II. Answer any 3 of the following questions:

6. What is meant by Bioremediation?

7. What is the structure of Insulin and what is meant by

Humulin?

8. What is meant by Gene therapy?

9. What is meant by SCID?

10. What are Transgenic organism on GMO's? Give one use.

Section-C

III. Answer any 2 of the following questions:

(Q.No.12 is compulsory)

11. Give the demerits of cloning.

12. Differentiate Somatic cell gene therapy and Germ line gene therapy.

13. Write a note on Biofertilizers.

Section-D

14. b) Write a note on PCR technique and its uses.