

Tsl12Bio

Tenkasi District

Common First Revision Test - January 2025

**Standard 12**

Time Allowed: 3.00 Hours

**BIOLOGY**

Maximum Marks: 70

**PART - I [BIO-BOTANY]****Marks: 35****Part - A****I. Choose the best answer:****8×1=8**

- 1) Which one of the following generates new genetic combinations leading to variations?
  - a) Vegetative reproduction
  - b) Parthenogenesis
  - c) Sexual reproduction
  - d) Nucellar polyembryony
- 2) If haploid number in a cell is 18. The double monosomic and trisomic number will be
  - a) 35 and 37
  - b) 34 and 35
  - c) 37 and 35
  - d) 17 and 19
- 3) Which one of the following is not correct statement?
  - a) Ti plasmid causes the bunchy top disease.
  - b) Multiple cloning site is known as polylinker.
  - c) Non viral method transfection of Nucleic acid in cell.
  - d) Polylactic acid is a kind of biodegradable and bioactive thermoplastic.
- 4) The phenotype ratio of complementary genes
  - a) 9:7
  - b) 9:3:3:1
  - c) 9:3:4
  - d) 9:6:1
- 5) Sticky glands of Boerhaavia and Cleome support
  - a) Anemochory
  - b) Zoochory
  - c) Autochory
  - d) Hydrochory
- 6) About 70% of the total global carbon is found in
  - a) Forests
  - b) Grasslands
  - c) Agro ecosystems
  - d) Oceans
- 7) **Assertion (A)** : Genetic variation provides the raw material for selection.  
**Reason (R)** : Genetic variations are differences in genotypes of the individuals.
  - a) A is right and R is wrong.
  - b) A is wrong and R is right.
  - c) Both A and R is right.
  - d) Both A and R is wrong.
- 8) Which one of the following matches is correct?
  - a) Palmyra - Native of Brazil
  - b) Saccharum - Abundant in Kanyakumari
  - c) Stereocide - Natural sweetener
  - d) Palmyra serp - Fermented to give ethanol

**Part - B****II. Answer any four of the following questions:****4×2=8**

- 9) Draw and label the structure of male gametophyte.
- 10) Define Test cross.
- 11) Differentiate cooling and non cooling strand.
- 12) List out the types of plant tissue culture.
- 13) Which method is involved in the removal of cadmium from the contaminated soil? Define with example.
- 14) Mention the benefits of seed treatment.

**Part - C****III. Answer any three of the following questions:****3×3=9****[Q.No. 19 is compulsory]**

- 15) A person got irritation while applying chemical dye. What would be your suggestion for alternative.
- 16) Generally the pyramid of number in forest ecosystem looks spirella shape. State your reason.
- 17) Differentiate habitat and Niche.
- 18) What are the organisms used in single cell protein?
- 19) A detached leaf of Bryophyllum produces new plants. How?

Kindly Send Me Your Questions &amp; Answer Keys to us: padasalai.net@gmail.com



Tsl12Blo

2

**Part - D****IV. Answer all questions:****2×5=10**

- 20) a) Bring out the inheritance of chloroplast gene with an example. (OR)  
 b) What is gene mapping? Write its uses.
- 21) a) Generally human activities are against the ecosystem. As a student, how will you help to protect ecosystem? (OR)  
 b) Give an account of active principle and medicinal value of Nilavembu, Keezhanelli and Adathoda plants.

**PART - II [BIO-ZOOLOGY]****Marks: 35****Section - I****I. Choose the best answer. Write the answer with option:****8×1=8**

- 1) Restorative Regeneration observed in \_\_\_\_\_.  
 a) Star fish                      b) Humanbeing                      c) Honeybes                      d) Apbis
- 2) \_\_\_\_\_ are elongated and pyramidal and provide nourishment to sperm till maturation.  
 a) Leydigcells                      b) Interstitial cell                      c) Sertolicells                      d) Germ cells
- 3) The average foetal heart beat between \_\_\_\_\_.  
 a) 72 times                                      b) 82 times  
 c) 110-120 times                                      d) 120 and 160 times
- 4) Co-dominant blood group is \_\_\_\_\_.  
 a) A                                      b) AB                                      c) B                                      d) O
- 5) Sucker fish on shark is an example of \_\_\_\_\_.  
 a) Amensalism                      b) Competition                      c) Commensalism                      d) Parasitism
- 6) Which of the following region has maximum bio-diversity \_\_\_\_\_.  
 a) Taiga                                      b) Tropical forest  
 c) Temperate rain forest                                      d) Mangroves
- 7) \_\_\_\_\_ is referred as queen of drugs.  
 a) Penicillin                      b) Erythromycin                      c) Chloromycetin                      d) Kenamycin
- 8) The Athlete's foot disease in human is caused by \_\_\_\_\_.  
 a) Bacteria                      b) Fungi                      c) Virus                      d) Protozoans

**Section - II****II. Answer any four questions:****4×2=8**

- 9) Define Apolysis.
- 10) What is meant by Braxton - Hick's contractions?
- 11) Write down the symptoms of Turner's syndrome.
- 12) Define Haematopoiesis.
- 13) Any two advantages of cloning in Animals.
- 14) What is meant by "4R"?

**Section - III****III. Answer any three questions: [Q.No. 19 is compulsory]****3×3=9**

- 15) Differentiate Insitu and Exsitu conservation.
- 16) Any three adaptation of Aquatic animals.
- 17) When does antibiotic resistance develop?
- 18) Explain connective link.
- 19) Note on Oral Contraceptives.

**Section - IV****IV. Answer all the questions:****2×5=10**

- 20) Write a brief account about In vitro fertilization. (OR)  
 ABO blood groups.
- 21) Describe the structure of Immunoglobulin. (OR)  
 Effects of Noise pollution.