



V12Bio

Virudhunagar District
Second Mid Term Test - 2023

Standard 12
BIOLOGY

Part - I (Bio-Botany)

Section - A

Marks: 50
Marks: 25

Time: 1.30 Hours

I. Choose and write the correct answer with option code:

5×1=5

- 1) The plants which are grown in silvipasture system are
 - a) Sesbania & Acacia
 - b) Solanum & Croton
 - c) Clitoria & Begonia
 - d) Teak & Sandal
- 2) Which one of the following is an alien invasive species?
 - a) Mangifera indica
 - b) Eichhornia crassipes
 - c) Solanum nigrum
 - d) Zizipus jujuba
- 3) Solar energy used by green plants for photosynthesis is only
 - a) 2 - 8%
 - b) 2 - 10%
 - c) 3 - 10%
 - d) 2 - 9%
- 4) Match the following

I) 0.2 to 2.00 mm	- i) Silt Soil
II) Less than 0.002 mm	- ii) Clayey soil
III) 0.002 to 0.02 mm	- iii) Sandy soil
IV) 0.002 to 0.2 mm	- iv) Loamy soil

 - a) ii iii iv i
 - b) iv i iii ii
 - c) iii iv i iv
 - d) None of the above
- 5) Which of the given plant produce cardiac glycosides
 - a) calotropis
 - b) Acacia
 - c) Nepenthes
 - d) utricularia

Section - B

II. Answer any Three questions:

3×2=6

- 6) What is Ozone hole
- 7) Define Ten percent law
- 8) What is phytoremediation?
- 9) What is Vivipary? Name a plant group exhibits vivipary.
- 10) Find out the type of following food chain. Add a note its significance.
Fallen leaves → Earthworm → Black bird → Hawk

Section - C

III. Answer any Three questions:

3×3=9

- 11) What is Thermal stratification? Mention their types
- 12) Distinguish habitat and niche
- 13) Draw a pyramid from the following details. Hawk - 50, Plants - 1000 rabbit & mouse - 250 + 250, pythons & lizard 100 + 50.
- 14) Draw the relative contribution of green house gases. What is Green House Effect?
- 15) Define Food web? Write its significance.

Section - D

IV. Answer the following:

1×5=5

- 16) a) Generally human activity are against to the ecosystem, where as you a student how will you help to protect ecosystem.

(OR)

- b) Explain different types of hydrophytes with examples.

Kindly Send me your Answer Keys to email id - Padasalai.net@gmail.com

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Part - II (Bio-Zoology)
Section - I

Marks: 25

I. Answer all the questions:**5×1=5**

- 1) ELISA is mainly used for
 - a) Deduction of mutations
 - b) Deduction of Pathogens
 - c) Selecting plants having desired traits
 - d) Selecting animals having desired traits
- 2) The relationship between Suckerfish and shark is
 - a) competition
 - b) Commensalism
 - c) Predation
 - d) Parasitism
- 3) What is the reason for decrease the number of sparrows?
 - a) Habitat loss
 - b) Over exploitation
 - c) Habitat Fragmentation
 - d) Pollution
- 4) Some organisms are able to maintain homeostasis by physical means
 - a) Conform
 - b) Regulate
 - c) Migrate
 - d) Suspend
- 5) The first transgenic organism is
 - a) Cat
 - b) Cow
 - c) Dog
 - d) Pig

Section - II**II. Answer any three of the questions:****3×2=6**

- 6) Write the short notes between the correlation of calvaric tree and Dodo bird?
- 7) Write any two difference between somatic cell gene therapy and germ line gene therapy?
- 8) Write short note about 'J' shaped growth form?
- 9) Why E Coli was not suited for Production of Recombinant interferon?
- 10) What is Nataliy?

Section - III**III. Answer any three of the questions:****3×3=9**

- 11) Write short notes an Allen's rule?
- 12) Write the uses of Pplymerase chain reaction technique in forensic medicine?
- 13) What are the catagories about species in Red Data Book?
- 14) Write any three points of Demerits of Animal Cloning?
- 15) What are the major Biomes of the earth?

Section - IV**IV. Answer the following questions:****1×5=5**

- 16) Write the difference between Insitu conservation and exsitu conservation.

(OR)

What are the three types of recombinant vaccines? Which are of the vaccine are produced by Protein, peptide and DNA of pathogenic organism - Give brief note.