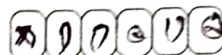


Ts12Bio

Tenkasi District



Common Second Mid Term Test - 2024

27-11-24

Time: 1.30 Hours

Standard 12BIOLOGYBIO-BOTANYPART - A

Marks: 35

**I. Choose the correct answer.****2×1=2**

- 1) Which of the following are not regulating services of ecosystem services?
  - i) Genetic resources
  - ii) Recreation and aesthetic values
  - iii) Invasion resistance
  - iv) Climatic regulation
- a) (i) and (ii)      b) (i) and (iii)      c) (i) and (iv)      d) (ii) and (iv)
- 2) Jeya and Ratna are the semi dwarf varieties of
  - a) Wheat
  - b) Rice
  - c) Cowpea
  - d) mustard

**PART - B****II. Answer any 2 of the following questions.****2×2=4**

- 3) Write a note on heterosis
- 4) What are agrochemicals
- 5) Draw the structure of Thermal stratification.

**PART - C****III. Answer any 2 of the following questions. Q.No. 8 is compulsory.****2×3=6**

- 6) What is ecotone. Give an example.
- 7) Productivity of profundal zone will be low. why?
- 8) How are microbial inoculants used to increase the soil fertility?

**PART - D****IV. Answer all the following questions.****1×5=5**

- 9) a) Explain afforestation with case studies

**(OR)**

- b) Explain the effects of ozone depletion.

**BIO-ZOOLOGY****I. Choose the best answer.****3×1=3**

- 1) The protein content of Transgenic cow Rosie is .....
  - a) 2.4 gm/litre
  - b) 3.4 gm/litre
  - c) 2.2 gm/litre
  - d) 4.4 gm/litre
- 2) The Ability of the stem cells to differentiate into only one type of cell is called .....
  - a) Totipotency
  - b) Pluripotency
  - c) multipotency
  - d) unipotency
- 3) ..... is the example of stenotherms
  - a) Lizards
  - b) Cat
  - c) Dog
  - d) Human

**II. Answer any two questions.****2×2=4**

- 4) What is meant by phototaxis?
- 5) Define Ecological niche?
- 6) What is meant by pluripotency?

SIVAKUMAR.M,

Sri Ram Matric HSS

Vallam-627809

Tenkasi District.

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**III. Answer any two questions. Q.No. 9 is compulsory.**

**2×3=6**

- 7) Somatic cell genetherapy and Germline Genetherapy - Differentiate
- 8) What is meant by gene knock out?
- 9) What is Acclimation?

**IV. Answer all the questions.**

**1×5=5**

- 10) Uses of Transgenesis

**(OR)**

- 11) Write down the properties of soil.

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