

MAYILADUTHURAI DISTRICT  
THIRD REVISION TEST 2023.

SECTION 12

BOTANY

MARKS ; 70

TIME: 3.00 Hr

I. Answer all question.

15x1=15

1. Which plant is called as King of bitter?  
a. Keezha nelli b. aada thodai c. nila vembu d. neem
2. Botanical name of turmeric is. a. Piper nigrum  
b. curcuma longa c. Tamarindus indica d. capsicum annum.
3. Sea weed liquid fertilizer is made from.  
a. spirogyra b. chara c. kelp d. chlorella
4. Depletion of which gas in the atmosphere can lead to an increased incidence of skin cancer  
a. ammonia b. methane c. nitrous oxide d. ozone
5. The transfer of energy in an ecosystem between trophic levels can be termed as .  
a. food web b. energy flow c. consumers d. food chain
6. Significance of food web is /are  
a. it does not maintain stability in nature  
b. it shows patterns of energy transfer  
c. it explain species interaction  
d. b and c
7. In soil water available for plant is .  
a. gravitational water b. chemically bound water  
c. capillary water d. hydroscopic water
8. Coleraiza is found in.  
a. Paddy b. Beans c. Pea d. tridax
9. In order to find out the different types of gametes produced by pea plant having the genotype AaBb, it should be crossed to a plant with the genotype \_\_\_\_\_  
a. aaBB. B.AaBB. C.AABB. D.aabb.
10. A complex of ribosome attached to a single strand of RNA is known as.  
a. poly some. b. polimer c. palipeptide d. Okazaki fragment
11. The algae used in the production of single cell protein.  
a. yeast b. agarcus campestris. c. cellulomonas d. chlorella
12. the appropriate temperature used for cryo preservation

- a. 196 C b.196 C c. 100 C d . - 100C.  
13. The scar left by funiculus in the seeds is.  
a.epicotyl b.Tegmen c.Hilum d.radicl  
14. The selected tissue to established a new plant in a culture medium.  
a.Embroid b.callus c.plantlets d. explant.  
15. Initiation codon is.  
a.AUG. b.UUU. C.UAG d.UGA

PART II

6x2=12

NOTE Answer any six of the following Question no.24 is compulsory

16. What is called Somatic Hybridization  
17. Which method is involved in the removal of cadmium from the contaminated soil define with example.  
18.pyramid of biomass is always inverted in shape state your explanation.  
19. mention the benefits of seed treatment.  
20. Write the types of cell based on the position of sporogenous cell.  
21. Name the extra chromosomal inheritance  
22. Give two example of halophytes.  
23. What is remote sensing.?  
24. Define heterosis.

Part 3.

6x3=18

Answer any 6 of the following question number 33 is compulsory.

25. Define epiphyllus bud.  
26. What is empirical law. ?  
27. What are restriction site.?  
28. List out the types of plant tissue culture.  
29. Define co- evolution  
30. Explain plant indicators.  
31. Mention and reason out the awards of nel jayaraman.  
32. What is replication fork ?  
33.what are the materials used to grow micro organism like spirulina?.

Part 4

**note** answer all the questions.

5x5=25

34. a. Explain the different types of ovule with suitable diagram ( or )  
b.illustrate the dominant epistasis with a suitable example.

- 35.a. Differentiate primary succession from secondary succession (or)  
b . what are the major activities of forestry extension centres.?
- 36 a. list out the application of plant tissue culture (or)  
what is Epiphytes bring out the morphological adaptation present in it.?
- 37.a. Bring out the different steps involved in mechanism of Decomposition (or)  
b. what are the effect of ozone depletion?.
- 38.a.mention the various modern methods of seed production (Or)  
b. How will you prepare organic pesticide and how will you handle it.