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Virudhunagar District Common First Revision Test - January 2024

# Standard 12

Time: 3.00 Hrs.

V12Bio

**BIOLOGY** 

Marks: 70

Marks: 35

PART - I [BIO-BOTANY]

Section - I

 $8 \times 1 = 8$ 

Note: 1. Answer all the questions.

2. Choose the most appropriate answer from the given four alternatives

and write the option code and the corresponding answer.

1) In a test cross involving F1 dihybrid cross, more parental type offspring were produced than the recombination type offspring. This indicates

a) Chromosomes failed to separate during meiosis

b) The two genes are located on two different chromosomes

c) The two genes are linked and present on same chromosome

d) Both of the characters are controlled by more than one gene

2) In certain organisms, the occurrence of only parental combinations is due to

a) linked genes are sufficiently apart

b) linked genes are found in the middle

c) linked genes exhibit crossing over

d) linked genes do not exhibit crossing over

3) The fungus which is used as a single cell protein is

d) Spirulina c) Cellulomonas b) Alcaligenes a) Candida utillis

4) Virus free plants are developed from

a) Protoplast culture

b) Organ culture

c) Cell suspension culture

d) Meristem culture

5) The interaction found in orchids and lianas is

a) Competition

b) Parasitism

d) Commensalism

6) Deforestation does not lead to

a) soil erosion

b) alternation of local weather conditions

c) Predation

c) quick nutrient cycling d) destruction of natural habitat weather conditions

7) Match the following: Choose the correct sequence.

i) Symbiotic N<sub>2</sub> bacteria

a) Azotobacter

ii) Phosphate solubilizing bacteria

b) Amanita species

iii) Free living bacteria

c) Aspergillus species

iv) Phosphate mobilizing bacteria

d) Anabena azollae

a) i-d, ii-c, iii-b, iv-a

c) i-b, ii-c, iii-d, iv-a

b) i-d, ii-c, iii-a, iv-b

d) i-c, ii-d, iii-b, iv-a

8) New world species of cotton

a) Gossypium arboretum

b) G. herbaceum

c) G. barbadense

d) Both a and b

#### **Section - II**

## **Answer ANY FOUR of the following:**

9) What is reciprocal cross? What is its conclusion?

10) What is synapsis? At which stage of cell division it occurs?

11) What is cybrid?

12) Draw the diagram thermal stratification.

13) What is community productivity?

14) Write a note on 'Heterosis'.

### **Section - III**

## Answer ANY THREE of the following. Q.No. 19 is compulsory:

3×3=9

 $4 \times 2 = 8$ 

15) What are endemic plants? Mention any three endemic plants with their centre.

16) Water is very essential for life. Write any three features for plants which enable them to survive in water scarce environment.

17) How will you identify a vector?

18) What are the functions of endosperm?

19) What is pseudo cereal? Give an example.

Kindly send me your answer keys to us - padasalai.net@gmail.com