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Virughunagar District Common Second Revision Test - 2025 Standard 11



Time Allowed: 3.00 Hours

BIOLOGY PART 1[BIO-BOTANY] Section - I

Maximum Marks: 70

Marks: 35

Note: 1. Answer all the questions

8×1=8

2. Choose the appropriate code and write the answer with the option code.

1) A true fruit is the one where

a) Only ovary of flower develops into fruit.

b) Ovary and Calyx of the flower develops into fruit.

c) Ovary, Calyx and Thalamus of the flower develops into fruit.

d) All the floral parts of the flower develops into fruit.

2) Which of the following flowering plant with nodules containing filamentous nitrogen fixing microorganism?

a) Cicer arietinum

b) Casuarina equisetifolia

c) Cycas revoluta

d) Crotolaria juncea

3) Match and choose the correct sequence:

 a) Endoplasmic reticulum i) Harry Beevers

ii) K.R. Porter

b) Ribosomes c) Glyoxysomes

lii) Christian de Duve

d) Lysosomes

iv) George Palade

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

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

4) If APC is defective in human cell, which of the following is expected to occur?

a) Chromosomes will be fragmented b) Chromosomes will not condense

c) Chromosomes will not segregate d) Recombination of chromosomes will occur

5) Choose the correct statements:

a) About 98% of the total water uptake occurs in plants by passive absorption.

b) In a solution of standard atmospheric pressure, $\psi_W = \psi_S$.

c) Increased DPD favours endosmosis.

d) Aquaporin is a carrier protein. a) All are correct

b) a, b, c c) b, c, d d) only c and d

6) Choose the correct sequence:

 Die back disease of citrus Whip tail disease

i) MO ii) Zn

Brown heart of Turnip

iii) Cu

Little leaf

iv) B

a) 1-iv, 2-iii, 3-ii, 4-i

b) 1-iii, 2-iv, 3-i, 4-ii

c) 1-iv, 2-i, 3-ii, 4-iii

d) 1-iii, 2-i, 3-iv, 4-ii

 C₄ cycle occurs in a) Mesophyll cells

b) Lower epidermis of leaf

c) Bundle sheat cells

d) a and c

8) Which of the following reaction is not involved in Kreb's cycle?

i) Shifting of phosphate from 3C to 2C.

Splitting of Fructose 1, 6 bisphosphate into two 3C compounds.

iii) Dephosphorylation from the substrates.

iv) Two molecules of FAD and oxidized to FADH₂.

a) ii and iv

b) i and iv

c) i, ii, iii

d) All of these

Section - II

Answer any four of the following:

 $4 \times 2 = 8$

9) Differentiate: Homoiomerous and Heteromerous lichen

13) Why the cells of sclerenchyma and tracheids become dead?

10) What are Manoxylic and Pycnoxylic wood?

What are Biennials? Give an example.

What are primary metabolites? Give an example.

14) What is Bark?

21) a) Discuss the various techniques adopted in cattle breeding.

b) Describe the mechanism by which the human heart beat is initiated and controlled.

(OR)