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Ranipet Dist

FIRST REVISION TEST - 2023

Standard - XII

Time : 3.00 hrs

BOTANY

Marks: 70

Section - I

15×1=15

I. Answer all the questions:-

- 1) Pollination by slugs and snails called _____
a) Ornithophily b) Entomophily c) Malacophily d) Myrmecophily
- 2) Parthenocarpic Fruits Lack _____
a) Endocarp b) Epicarp c) Mesocarp d) seed
- 3) Select the period for Mendel's hybridization experiment
a) 1856-1863 b) 1850-1870 c) 1857-1869 d) 1870-1877
- 4) In haploid number in a cell is 18. The double Monosomic and trisomic number will be
a) 35 and 37 b) 34 and 35 c) 37 and 35 d) 17 and 19
- 5) _____ used to produce algal biofuel
a) Chlamydomonas reinhardtii b) Botryococcus braunii
c) Aequorea Victoria d) Alcaligenes eutrophus
- 6) The time duration for sterilization process by using autoclave is _____ minutes and the temperature is _____
a) 10 to 30 minutes and 125°C b) 15 to 30 minutes and 121°C
c) 10 to 20 minutes and 125°C d) 10 to 20 minutes and 121°C
- 7) Who proposed the concept of Totipotency
a) Karl Ereky b) Gottlieb Haberlandt
c) Edward Jenner d) Ernst Hoppe
- 8) Pedogenesis refers to
a) Fossils b) Water c) Population d) Soil
- 9) Which of the given plant produces Cardiac glycosides?
a) Calotropis b) Acacia c) Nepenthes d) Utricularia
- 10) Orobanchae is a
a) Saprophyte b) Autotroph c) Partial parasite d) Total parasite
- 11) Seeds germinating in the fruits of Motherplant is known as
a) Hydrochory b) Apospory c) Vivipary d) Mimicry
- 12) The unit of measuring ozone thickness _____
a) Joule b) Kilos c) Dobson d) WaH
- 13) Match Column I with Column II

Column I	Column II
i) William S. Gand	I. Heterosis
ii) Shull	II. Mutation breeding
iii) Cotton Mather	III. Green revolution
iv) Muller and Stadler	IV. Natural hybridization
a) i-I, ii-II, iii-III, iv-IV	b) i-III, ii-I, iii-IV, iv-II
c) i-IV, ii-II, iii-I, iv-IV	d) i-III, ii-IV, iii-III, iv-I

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XII BOTANY

- 14). Groundnut is native of _____
 a) Philippines b) India c) North America d) Brazil
- 15) Select the Mismatch
 a) Andrographis - Hepato protective
 b) Adhatada - broncho dialator
 c) Phyllanthus - anti-diabetic
 d) Curcumin - anti-oxidant

Section - II

II. Answer any six questions. Q.No. 24 is compulsory:-

6×2=12

- 16) What is layering?
 17) What is endothelium?
 18) Define Plant genome.
 19) What is De differentiation
 20) What is Seed ball?
 21) Define Oceanography.
 22) Define heterosis
 23) What is terrarium?
 24) What is PAR?

Section - III

III. Answer any six questions. Q.No. 33 is compulsory:-

6×3=18

- 25) What is polyembryony. How it can Commercially exploited.
 26) Differentiate incomplete dominance and co-dominance (any 3 points)?
 27) Write the advantages of herbicide tolerant crops.
 28) Write short notes on alkaline phosphatae.
 29) List out the effects of fire to plants.
 30) What is the significance of food web.
 31) What is green house effect? Draw the relative contribution of green house gases.
 32) Mention the properties of ebony.
 33) Draw and label the parts of L.S. of Dicot seed.

Section - IV

IV. Answer all the questions:-

5×5=25

- 34) a) Enumerate the characteristic features of Entomophilous flowers. [or]
 b) List down the advantages of Conventional methods.
- 35) a) Describe dominant epistasis with an example. [or]
 b) Mention the name of Man-made Cereal. How it is formed
- 36) a) Mention the applications of Biotechnology. [or]
 b) What is bioremediation? Give any 4 examples of bioremediation.
- 37) a) What is Soil profile? Explain the characters of different Soil horizons. [or]
 b) Explain Mechanism of decomposition.
- 38) a) What are the different types of hybridization. [or]
 b) What are psychoactive drugs? Add a note Marijuana and opium.
