Kindly send me your questions and answerkeys to us: Padasalai.Net@gmail.com

iv) Appiko movement was started in Uttara Karnataka.

b) i, iii

a) ii, iii, iv

ii) The endemic center for Hardwickia binata is Southern Western Ghats.

iii) Prosopis juliflora is an invasive species native to Mexico and South America.

c) i, iii, iv

d) i, ii

www.Padasalai.Net - No.1 Educational Website in Tamilnadu Agrobacterium tumifaciens is popular in genetic engineering V12Bio 8) Assertion because this bacterium is associated with the root nodules of all cereals and pulse crops. A gene incorporated in the bacterial chromosomal genome get Reason automatically transferred to the plant with which associated. a) Both Assertion and Reason are true and Reason is the correct explanation for Assertion. b) Assertion is true but Reason is false. c) Both Assertion and Reason are false. d) Assertion is false but Reason is true. Section - II 4×2=8 Answer any four of the following: Write a note on Heterostyly. 10) What is co-evolution? 11) Define: Explant 12) What is synapsis? What are its types? 13) Give four examples of plants cultivated in commercial agroforestry. 14) Differentiate: Bio-medicines and Botanical medicines 11:11 Section - III 3×3=9 Answer any three of the following. Q.No. 19 is compulsory: 15) Differentiate: Incomplete dominance and Codominance. 16) What is Albedo effect? Write its effect. 17) Write the risk of genetically modified foods. 18) Explain the best suited type followed by plant breeders at present.

- 19) Photosynthesis follows the First law of thermodynamics Justify the statement.

Section - IV

Answer all the questions:

 $2 \times 5 = 10$

- 20) a) Give a concise account on steps involved in fertilization of an angiospermic (OR) plant.
 - b) Compare the various types of blotting technique.
- 21) a) What is hybridization? Explain the steps involved in hybridization.

(OR)

b) How will you prepare an organic pesticide for your home garden with the vegetables available from your kitchen?

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