

STD:12 EM BIOLOGY – TEST SERIES Max Mark :25**C5- PLANT TISSUE CULTURE****I. CHOOSE THE CORRECT ANSWERS****5 x 1 =5**

1. The prevention of large scale loss of biological interity
 - a) Biopatent
 - b) Bioethics
 - c) Biosafety
 - d) Biofuel
2. Select the incorrect statement from given statement.
 - a) A tonic used for cardiac arrest is obtained from Digitalis purpuria.
 - b) Medicine used to treat Rheumatic pain is extracted from Capsicum annum.
 - c) An anti malarial drug is isolated from Cinchona officinalis
 - d) Anti-cancinogenic property is not seen in Catharanthus roseus.
3. Virus free plants are developed from
 - a) Organ culture
 - b) Meristem culture
 - c) Protoplast culture
 - d) Cell suspension culture
4. Totipotency refers to
 - a) capacity to generate genetically identical plants.
 - b) capacity to generate a whole plant from any plant cell / explant.
 - c) capacity to generate hybrid protoplasts.
 - d) recovery of healthy plants from diseased plants.
5. Solidifying agent used in plant tissue culture is
 - a) Nicotinic acid
 - b) Cobaltous chloride
 - c) EDTA
 - d) Agar

II VERY SHORT ANSWERS**3 x 2 = 6**

6. Give the examples for micro propagation performed plants.
7. Write the protocol for artificial seed preparation.
8. What is the name of the process given below? Write its 4 types.

III SHORT ANSWERS**3 x 3 = 9**

9. What do you mean Embryoids? Write its application.
10. Write the various steps involved in cell suspension culture.
11. What do you know about Germplasm conservation? Describe it.

IV LONG ANSWERS**1 x 5 = 5**

12. Based on the material used, how will you classify the culture technology? Explain it.