www.Padasalai.Net QUARTERLY EXAMINATION - 2024 Reg.No BIOLOGY CLASS: XII MAX MARKS : 70 **BIO-BOTANY** Time: 3.00 Hours MARKS: 35 SECTION -Answer all the Questions : 8x1=8 Choose the most correct answer from the given alternate answer and write with its symbols. 1. External fertilization occurs in a) Angiosperms d) Gymnosperms e) Algae b) Bryophtes 2. If the haploid number of chromosome of a cell is 16. The double monosomic and trisomic number will be c) 37 and 35 a) 30 and 33 d) 17 and 19 b) 34 and 35 Totipotency refers to a) Capasity to generate genetically identical plants b) capasity to generate a whole plant from any plant cell / explant c) Capacity to generate hybrid protoplasts d) recovery of healthy plants from diseased plants 4. Which is the biologically degradable and biologically active thermoplastic? e) Green fluorescent protein d) Polyhydroxybutyrate a) Lactic acid b) Polylactic acid 5. Which mendelian idea is depicted by a cross in which the F1 generation resembles both the Parents a) Incomplete dominance b) Law of dominance c) Inheritance of one gene d) co.dominance 6. Choose the correct statement (s) about tenuinucellat a) Sporoganous cell is sub hypodermal ve fairly large nucellus b) Ovulc) Sporogenous cell is epidermal e single layer of nucellus tissue d) Ovules 7. Which of the following plant is an example for atavism in plants? a) Antirrhinum b) Capsella bursa pastoris c) Mirabilis jalapa d) Hieracium pilosella 8. Who is called as father of Tissue culture? a) Alfred H sturtevant b) C.B. Bridges c) Karpechenko d) Gottliep Haberlant SECTION-II Answer any Four of the following 4x2 = 89. What is called Pollinium? Give an example 10. Define: Test Cross 11. Differentiate - Crossing over and Translocation 12. What are the materials used to grow micro organism like spirulina? 13. What do you mean embryoids? 14. What is called Mellitophily? **SECTION - III** Answer any Three of the following. Quetion number 19 is compulsory. 15. The endosperm of an angiosperm is different from gymnosperm. Do you agree? justify your answer 16. What is meant by cytoplasmic inheritanc? 17. Differentiate - linkage and crossing over 18. Write the advantages of artificial seeds . 19. What do you know about pBR322? **SECTION - IV** 2x5=10 Answer all the questions. 20. a) Give a detailed account on parthenocarpy. Add a note on its significances (OR) b) Explain the mechanism of crossing over 21 a) Mention the applications of Biotechnology (OR) 12th Bio-Botany- Page-1 b) Explain the basic concepts of tissue culture

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