Virudhunagar District V11Bio Common Quarterly Examination - 2024 Standard 11 Marks: 70 Time: 3.00 Hours BIOLOGY Marks: 35 PART - I (Bio-Botany) Section - I 8x1 = 8Note: i) Answer all the questions: ii) Choose the correct answer and write it with their options. 1) Match the disease with their causal organism and choose the correct sequence Disease A. Virus Rust of wheat II. Sandal spike B. Bacteria III. Blight disease in Rice C. Mycoplasma IV. Rice Tungro disease D. Fungi b) I-D, II-A, III-B, IV-C a) I-B, II-D, III-A, IV-C d) I-D, II-C, III-B, IV-A c) I-C, II-A, III-D, IV-B 2) The haploid number of chromosome in a Gymnosperm is 18, the number of chromosome in its endosperm would be a) 36 b) 9 d) 27 c) 18 3) Aggregate fruit develops from a) Whole inflorescence b) multicarpellary Apocarpous ovary c) multicarpellary ovary d) multicarpellary synearpous ovary 4) Which of the following is the correct statement? a) In Pisum sativum leaflets modified into tendrils b) In Smilar inflorescence axis is modified into tendrils c) In Nepenthes midrib is modified into lid d) In Atlantia terminal bud is modified into thorns 5) The taxonomy which involves similarities and dissimilarities among the immune system of different tax is termed as a) numerical taxonomy b) chemotaxonomy c) Molecular systematics d) serotaxonomy 6) Choose the wrong statements i) Smooth ER are the site of protein synthesis ii) Lysosomes involved in cell plate and cell wall formation iii) Lampbrush chromosomes observed in the salivary glands of Drosophila iv) Mitochondrial DNA is used to track and date recent evolutionary time a) i, iv b) i, ii, iii c) ii, iii, iv d) iii, iv 7) Centromere is required for a) Cytoplasmic cleavage b) movement of chromosomes towards pole c) crossing oven d) transcription 8) The net charge of zwitter ion is a) Zero b) tively charged c) 100 Amp d) -ively charged Section - II Answer any four of the following 4x2 = 89) What is plectostele? Give an example 10) Write the floral formula for a flower with bract, regular, pentamerous, distinct calyx and corolla, superior ovary without Bracteole. 11) What are photosynthetic roots? Give example 12) What are the uses of molecular taxonomy? 13) Bring out the significance of Transmission Electron Microscope. 14) Distinguish between Nucleoside and Nucleotide Section - III Answer any three of the following: Q.No. 19 is compulsory. 3x3 = 915) Why the cells are arrested in G1 phase without any division? 16) Draw and label; ultra structure of a plant cell 17) What are lianas? 18) Mention the living characters of the virus 19) Do you think that shape of chloroplast is unique for algae - Justify your answer

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(OR)

What is an epithelium? Enumerate the charateristic features of any four.

21) What are the events in inspiration and expiration

(OR)

Describe the machanism by which the human heart beat is initiated and controlled