PM SHRI KENDRIYA VIDYALAYA MALKAPURAM

CLASS: XI SUB: BIOLOGY

HOLIDAY HOME WORK- HOME WORK COPY

Chapter: Plant Kingdom

Q1. What are the differences between artificial and natural system of classification?

Q2. Define phylogenetic classification systems, numerical taxonomy, cytotaxonomy and chemotaxonomy.

Q3. Give general characteristics of Kingdom Algae & discuss its mode of reproduction also.

Q4. Name two hydrocolloids obtained from algae.

Q5. Name two algae from which agar is obtained. give commercial use of agar.

Q6. Name two unicellular algae rich in proteins & which are used as protein supplements by space travelers.

Q7. List the name divisions of kingdom Algae & give their characteristics.

Q8. Explain life cycle of Bryophytes (Mosses).

Q9. Why are bryophytes called amphibians of Plant Kingdom?

Q10. What is 'gemma'? Where do you find them?

Q11. Give schematic representation of life cycle of pteriophyte.

Q12. Schematically represent life cycle of a gymnosperm.

Q13. What are 2 classes of Angiosperm?

Q14. Describe male & female sex organs of an angiosperm.

Q15. What is double fertilization?

Q16. Give schematic representation of life cycle of an angiosperm.

Chapter. Biological Classification

Q1. Define the following terms: - systematics, taxonomy, classification, nomenclature and phylogeny.

Q2. List seven categories of taxonomic hierarchy.

Q3. List any 2 taxonomic aids.

Q4. Give scientific name of man and mango.

Q5. Who proposed 2 kingdom classifications? Give two shortcomings of the classification.

Q6. What are the main criteria for classification of organisms in 5 kingdom classification? Who proposed this classification?

Q7 (a)Give 3 features of kingdom Monera. (b)Discuss 3 groups of Archaebacteria (c)Why, are cyanobacteria also referred as blue green algae?

Q8. Where do you find heterocyst? What is its function? Name two bacteria in which they are found. Q9. Give functions of some heterotrophic bacteria.

Q10. To which group PPLD belongs to? Give their features.

Q11 (a)List the features of different phylum under kingdom protista. (b)Give economic importance of Phylum Protozoa and Phylum chrysophyta.

Q12. Enumerate the characteristics of Kingdom Fungi.

Q13 (a)Describe the steps involved in sexual reproduction of fungus. (b)What is the mode of vegetative and asexual reproduction in fungi?

Q14. Give features of class Zygomycetes, class Ascomycetes, Phycomycetes and Basideomycetes of Kingdom Fungi.

Q15. Which class of Kingdom Fungi is commonly known as "Imperfect fungi' & why?

Q16 (a)What is the contribution of D1 Iwanowsky and M.W. Beijerinek which respect to viruses? (b)Draw labeled diagram of a bacteriophage. (c) Describe structure of virus.

Q17. What are viroids?

Q18. Describe Lichens & give its significance also

Chapter: Animal Kingdom

Q1. What is open and closed type of circulatory system?

Q2. Which type of symmetry do the following animals have, explain the symmetry also:- sponges, echinoderms, annelids.

Q3. Give single terms for:- (a) Animals which have ectoderm & endoderm only. (b) Animals which ectoderm, mesoderm and endoderm.

Q4. Define coelom. Give e.g. of animals who are coelomates.

Q5. What are pseudocoelomates & acoelomates animals? Give egs also.

Q6. What is metamerisation ?

Q7. Give flowchart of classification of animals.

Q8. Explain the terms of Phylum Porifera: - Water canal system, coenocytes & types of skeleton sponges have.

Q9 (a) In which phylum do you find endoblasts? What is its function? (b) Give differences between polyp & medusa.

Q10. What is bioluminescence?

Q11. What is the function of flame cells? In which phylum are they found?

Q12. Which phylum has the characteristic – bilaterally symmetrical, triploblastic, pseudocoelomates animal?

Q13. What are the functions of parapodia & nephridia? Q14. Which is the largest phylum of Animalia?

Q15. Describe the following features of an arthropod (a) Body exoskeleton (b) appendages (c) organs of respiration, balance organs & organs of excretion.

Q16. Give characteristic features of Phylum Mollusca.

Q17. Which are the most distinctive features of an Echinoderm?

Q18. Give differences between chordates & Nonchordates.

Q19. Which are the three subphylum of Phylum chordata?

Q20. List the features of Vertebrata & give its flowchart.

Q21. List the features of with examples: - (i) Class cyclostomata (ii) Class chondrichytes (ii) Class Osteichythes (iv) Class Amphibia (v) Class Reptilia (vi) Class Aves (vii) Class Mammalia

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********A4 - SHEETS- DIAGRAMS: 1. MITOSIS CELL DIVISION**

2. MEIOSIS CELL DIVISION

3.Cyclic photophosphorylation

4. Non- cyclic photophosphorylation

5. Calvin cycle/Dark reaction

*********RECORD FOR THE MONTH OF SEP & OCT**

********PROJECT REPORT- ANY TOPIC FROM ANY CHAPTER OF FIRST TERM**