

SAINIK SCHOOL CHANDRAPUR

WINTER BREAK HOLIDAYS HW XI-BIOLOGY

(UNIT-1) CHAPTERS 1-4

1. Name the processes that are basic to taxonomy?
2. What are the rules to be followed in Binomial nomenclature?
3. What type are methanogens? Why are they called so?
4. Have you heard about bio-fertilizers? What are they? Why are farmers advised to use them in paddy fields?
5. a) What does the term virus mean?
b) What are the symptoms of viral diseases seen in plants? (Any two)
6. Who proposed 2 kingdom classification? What was the drawback of this classification?
7. Why are red tides caused and why are they harmful?
8. Deuteromycetes are called imperfect fungi? Why?
9. Conidia and ascospores both are produced in ascomycetes? How are they different from each other?
10. What does the following term mean :
a. Monoecious b. Dioecious c. Homothallic d. Heterothallic
11. How are liverworts and Mosses are different from each other?
12. What is alternation of generation? Explain with reference to Bryophytes and Pteridophytes?
13. Write 4 economic importance of Gymnosperms?
14. Explain the following terms in relation to angiosperm:-
a) Syngamy b) double fertilization c) Triple fusion d) Post fertilization changes
15. Differentiate Chlorophyceae and Rhodophyceae with reference to the following:
a) Pigments
b) Reserve food material
16. Roots in some gymnosperms have fungal or algal association. Give examples and their role in the plants?
17. How are Poikilothermic animals different from that of Homiothermic animals? Give an example of each?
18. What are peculiar features seen in parasitic Platyhelminthes?
19. How Platyhelminthes are different from that of Aschelminthes?
20. Fill in the blanks a, b, c, d in the table given below:

Phylum/Class	Excretory organs	Respiratory organs
Arthropoda	(a)	Gill/Lungs/Tracheal system
(b)	Nephridia	Skin/Parapodia
Mollusca	Metanephridia	(c)
Amphibia	(d)	lungs

21. Provide appropriate technical term in the space provided.
a) Blood filled cavity in arthropoda _____
b) Free floating form of Cnidaria _____
c) Stinging organs of jelly fishes _____
d) Lateral appendages in aquatic annelids _____
22. A) What are Polyps and medusa in Cnidaria?
b) How do they alternate with each other?.