



SOUNDARYA CENTRAL SCHOOL

Affiliated to CBSE-New Delhi

Mid Term -1-2019-2020

Grade: XI

Sub: Biology

Marks: 70

General Instruction:-

All questions are compulsory.

Section – A consists of 20 question of 1 mark each.

Section – B consists of 7 questions of 2 marks each.

Section – C consists of 7 questions of 3 marks each.

Section – D consists of 3 questions of 5 marks each

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1. Diptera is an order in the phylum **20 x 1=20**
a. Annelida b. Arthropoda c. Mollusca d. Aves
2. Contagium Vivum fluidum was proposed by
a. J. Ivanowsky b. M.W. Beijerinck c. Stanley d. Robert Hooke
3. The embryo Sac of an Angiosperm is made up of
a. 8 cells b. 7 Cells and 8 nuclei c. 8 nuclei d. 7 cells and 7 nuclei
4. The excretory organs of Phatyhelminthes are
a. Nephriadia b. Nephrons c. Flame cells d. Kidneys.
5. Woody thorns in citrus develop from
a. Stipule b. terminal bud c. Leaflet d. Axillary bud
6. A Chromosome carrying centromere at one end is called
a. Telocentric b. acrocentric c. Metacentric d. Submetacentric
7. Which of the following is a basic amino acid?
a. Serine b. Methionine c. Glycine d. Lysine
8. The time gap between Meiosis I and Meiosis II is
a. G₁ Phase b. Interphase c. G₀ phase d. Interkinesis
9. A plant tissue, when stained, showed the presence of Hemicellulose and pectin in cell wall of its cells. The tissue represents.
a. Sclerenchyma b. Collenchyma c. Xylem d. Parenchyma
10. Which among the following is not a genus
a. Solanum b. Homo c. Felis d. Indica
11. Name the smallest known prokaryote, state any one diseases caused by it.
12. Mention two red algae that yield agar.

13. What term is given to :-

- a. The specialized cells lining the spongocoel in sycon.
- b. The sexually reproducing phase of certain cnidarians

14. Define the terms 'Pulvillus' and Bract'.

15. In 80s Ribosome, what does 'S' stand for and what does it measure?

16. Differentiate between a nucleotide and a nucleoside

17. How is cell plate formed during cell division?

18. Write any two characteristic features of Euglenoids.

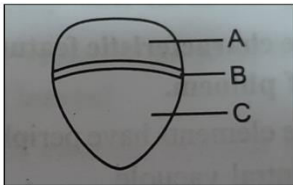
19. Placoid scales and ventral mouth are characteristics of class _____

20. When the stamens are attached to the perianth, they are termed as _____

Section- B

7 x 2 =14

1. The vascular bundle of a dicot stem is shown in the figure given below.



a. Identify the parts A, B and C

b. Name the type of vascular bundle

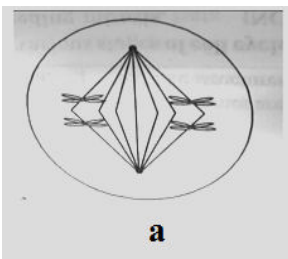
2. Discuss the effect of substrate concentration on the enzyme activity.

(Or)

Discuss the functions of the enzymes 'Oxidoreductase' and 'Lyases'

3. i) Name the stage and type of the cell division represented in (a)

ii) Describe the stage given in (a)



4. i) Identify the type of aestivation represented in (a) and (b)
- ii) Specify an example for each.



5. Represent the Haplontic life cycle of an algae Volvox.
6. Write a brief note on the plant body of Gymnosperms.
7. Specify one function each of the organelles of endomembrane system.

Section- C

7 x 3=21

1. Write four points of differences between the phylums Arthropoda and Mollusca

(Or)

Petromyzon, Scoliodon and Labeo are all fishes but they are placed in three different classes of chordate.

- a. How does petromyzon differ from the other two?
 - b. Name the classes which each of them belong to?
2. a. Draw a neat labelled diagram of a monocot seed
 3. In brief discuss the Anaphase stage of the Mitosis. Add a note on the significance of Mitosis.
 4. Mention one function each of the following:-
 - a. Plasmodesmata
 - b. Contractile Vacuole
 - c. Nucleolus
 5. In brief discuss the root modifications.
 6. Describe the sexual reproduction in Basidiomycetes
 7. In brief discuss the secondary structure of a DNA.

Section- D

3 x 5=15

1. With the help of a neat labelled diagram explain the T.S of Dicot root.

(Or)

- a. Draw a neat labelled diagram of T.S of Dicot Stem.
- b. Write any two point differences between Dicot and monocot stem.

2. a. Discuss the floral characteristics of the Family Solanaceae
- b. Write the floral diagram of Solanaceae and mention the floral formula.
3. In brief discuss, prophase I of meiosis- I
