

LIONS SCHOOL, MIRZAPUR
HALF YEARLY EXAMINATION, 2020-21

CLASS: - XI
SUB: - BIOLOGY(044)

TIME: -3hrs.
M.M.: - 70

GENERAL INSTRUCTIONS: -

- 1- There are a total of 27 question and four section in the question paper. All questions are compulsory.
- 2- Section A contain Q. No. 1 to 5. VCQ type question 1 marks each.
- 3- Section B contain Q. No. 6 to 12 S. Answer type question of 2 Marks each.
- 4- Section C contain Q. No. 13 to 24 S.A.- II questions of 3 Marks each.
- 5- Section D contain Q. No. 25 to 27 LA questions of 5 Marks each.
- 6- There is no overall choice in the question paper, however an internal choice is provided in one questions of 2 Marks, two questions of 3 Marks and all the three questions of 5 Marks, In these question, an examinee is to attempt any one of the two given alternatives.

SECTION- A

- Q.1- The Living steady state has a self-regulatory mechanism Which is. 1
(a) Homozygous (b) Homeostasis (c) Heterozygous
(d) Homeotherms
- Q.2- Which of the following has nerve cells but no Nerve- 1
(a) Tape worm (b) Sponge (c) Frog's tad pole
(d) Hydra
- Q.3- Which of the following statement is wrong for viroid's- 1
(a) They causes infection (b) They Lac Protein coat
(c) Their RNA is of high molecular Weight (d) They are smaller than viruses
- Q.4- In Meiosis chromatid separate during 1
(a) Anaphase I (b) Metaphase II
(c) Anaphase II (d) Prophase I
- Q.5- The functional unite of constractile system in striated muscle is 1
(a) Cross bridge (b) Myofibril (c) Sacromer (d) Z-band

Or

Bacteria with tuft of flagella at one pole is known as -

- (a) Atrichous (b) Peritrichous (c) Cephatotrichous
(d) Amphitrichous

SECTION- B

- Q.6- Select an appropriate chemical bond in given chemical substance. 2
(a) Polysaccharide (b) Fate

- Q.7- Distinguish between plasmodium and Pseudoplasmodium . 2
- Q.8- Mention the Polidy of the following- 2
- (i) Protonema cell of Mass.
 - (ii) Gema cell of Marchentia
 - (iii) Spore of Rhizopus
 - (iv) Leaf of Fern.
- Q.9- What is monograph 2
- Q.10- What is Go of cell cycle. Which stage of cell Division will you select the morphology of Chromosome.
- Q.11- (a) Name two plants that show kranz-Anatomy. 2
- (b) What does the world kranze Anotomes .
- Q.12- Name two trioses. Mention their chemical nature. 2

Or

Bringout two difference between. Primary and Secondary Metabolites . Name an example for each them.

SECTION- C

- Q.13- Who proposed the Fluid mosaic modal of plasma membrane. Described Fluid mosaic modal of plasma membrane with help of labelled Diagrane. 3
- Q.14- With which animal would you associate the following, Write their phylum and two identifying feature. 3

	Animal	Phyllum	Phyllum character
Cara pace and cephalothro	_____	_____	1-
Flam cell	_____	_____	2-
Gizzard & bones are pneumatic	_____	_____	1-
			2-

Or

What are the symport, antiport and uniport

- Q.15- Explain the various type of cell junction found in animal cell. 3
- (ii) Define Pneumatophore.
- Q.16- Explain the two process by which majority of Aminoacid in plants are

synthesized.

(ii) Why do Amino acid change their structure in different PH.

Q.17- Where does non cyclic photo phosphorylation take place. Describe this process.

Why is this process called so. 3

Q.18- How are Ascomycetes different from Basidiomycetes . 3

Q.19- In what ways do the saprophytic and Gametesphytic generation of fern differ from those of the bryophytes . Give gamitophytic reason. 3

Q.20- Draw the Floral diagram and floral formula of family Lilly. 3

(ii) Name the plant the following are obtain.

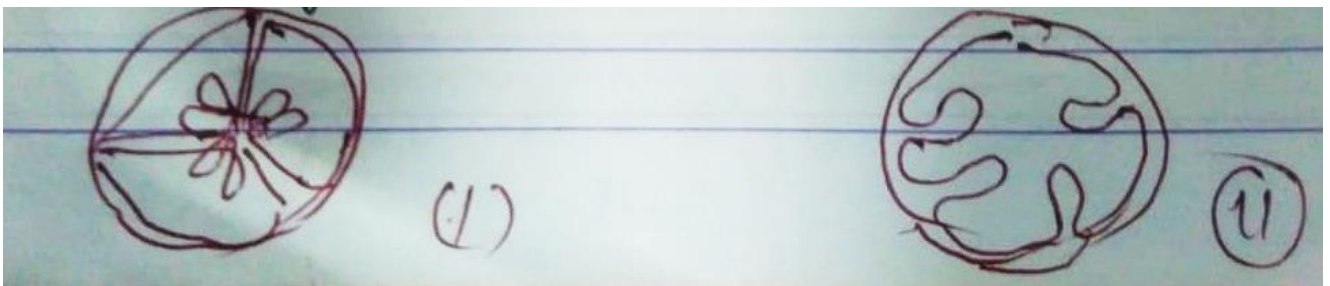
(a) Atropa

(b) Colchicen

Q.21- A cyclic process is occurring in C_3 plants which is Light dependent and needs O_2 .

This process does not produce energy, But rather consume energy. 3

(ii) Name the type of placentation shown in figures (i) and (ii) give one example-



Q.23- What is coelom . what are Acoelome PSudocoelomate and schizocoelom give example of each type. 3

Q.24- Mention a single membrane bound organelle which is rich in hydrolytic enzyme.

Write two function. 3

(ii) What is function of polysome.

(iii) What are main components of the cytosketton .

Or

Alge are known to reproduce Asexually by Varity of spores under different condition name these spores and conditions under which they are produced.

SECTION- D

Q.25- Describe briefly the ultra structure of flagella - 5

(ii) How many H bond are formed between

(a) Guanine and cytosine

(b) Adenine and thymine

Q.26- Give two characteristics of conifer leaves and root that make them were adopted for dry condition. 5

(ii) Name a free floating plant with photosynthesis root.

(iii) Why do Red Alge appear blue in shallow water.

Or

Define taxon give some example of texa at different hierarchical Levels:

(ii) Cynobacteria and Heterotrophic bacteria have been included in kingdom

Monera. Is this grouping of the two type of texa in the same kingdom justify?

If so why.

Q.27- (i)What is agar How agar can be benefited in scientific studies. 5

(ii) Which group of chordates possess Sucking and circular mouth without Jaw.

(iii) Why blood and bone called connective Tissue.

Or

(i) Explain classification of enzyme

(ii) What are APO enzyme and Holo enzyme .