## Cantonment Public School and College, Saidpur

Special Test- 2020 Class- XI (EV)
Biology 1<sup>st</sup> and 2<sup>nd</sup> paper
Date: 21.4.2020

Time: 2 hour 30 minute Full marks: 50

## [Answer any five (5) including two from each part]

	Part 1 (Botany)	
1. N	Aicrobes 1: Ultramicroscopic, absence of somatic growth, and hereditary material is n	ucleic acid.
N	Aicrobes 2. Microscopic, prokaryotic, and presence of 70S ribosome.	
a. W	Vhat is holocarpic fungi?	1
b. W	Why do two hosts are essential to complete the life-cycle of malarial parasite?	2
c. D	3	
d. 'l	Microbes 1. is depended on Microbes 2', analyze the statement with logic.	4
2.		
	Chlorophyll bearing organism Chlorophyll less organism	
	A B	
a. W	1	
b. W	2	
c. D	3	
d. A	analyze the mutual dependency of symbiotic plant which is formed in association with	n 'A'
and	4	
3. D	Ouring the study tour of class XI science students, they saw some rossette form thallus	like plant on the
dam	np soil of river bank Ramsagar. Besides this, they also saw a plant whose tender leave	s remain coiled
inwa	ardly. By observing, teacher said, the second plant is more advanced of the two.	
a. W	1	
b. W	2	
c. D	escribe the structure of thallus with labeled (transverse) diagram of first plant mentio	ned in
the s	stem.	3
d. Analyze the last speech of stem with logic.		
4. T	he plant body increases in length and breadth by the division of some cells. These cel	ls are
com	npactly arranged and it has no intercellular space.	
a. W	What is emerging virus?	1
b. What is meant by coenocytic mycelium?		
c. Classify the cell of stem on the basis of its position and origin.		

d. Analyze the structural differences between two types of cells with their tissue of the stem.

# Part 2 (Zoology)

5. There was a man who is called the father of 'Classification'. Another was the father of 'Z	Zoology'.
a. What is capillary?	1
b. What do you mean by tagmatization?	2
c. Explain the steps of the first line of the stem.	3
d. Analyze the works done by the above scientists.	4
6. There is a special type of eye of insect having many units which create different vision n	nechanism.
a. What is nematocyst?	1
b. What is the difference between exo- and endoskeleton?	2
c. Draw a labeled diagram of the above mentioned eye of the stem.	3
d. Explain the vision mechanism of the compound eye in the light of stem.	4
7. Labib said that I have a pumping organ which supplies one type of fluid throughout the b	oody.
a. What is coelom?	1
b. What do you mean by radula?	2
c. Draw a labeled diagram of the organ mentioned by Labib.	3
d. Explain the comparative differences between the major two blood vessels of the above	
pumping organ.	4
8. One type of cold-blooded animal is found whose heart has two chambers. They belong to	o cypriniformes
order.	
a. What is streamlined body?	1
b. What do you mean by venous heart?	2
c. Describe the structure of the scales of the animal of the stem.	3
d. Explain the arteries which are originated from the heart of the animal of the stem.	4

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Special Test- 2020 Class- XI (EV) Biology 1<sup>st</sup> and 2<sup>nd</sup> paper Date: 21.4.2020

Time: 25 minute Full marks: 25

### [Answer all of the questions; each of the questions carries 1 mark]

1. What is the name of tissue which forms the outer Which is correct? a. i and ii layer of plant body. c. ii and iii a. Ground meristem b. Meristem 10. Which is the example of nitrogen fixing c. Procambium d. Protoderm bacteria? i. Rhizobium 2. Which one of the following will die by absorbing ii. Azotobacter of pollutant when air pollution increases? iii. Nostoc a. Algae b. Fungi Which is correct? c. Lichen d. Fern a. i and ii 3. What is the example of secondary meristematic c. ii and iii tissue? 11. Which of the following is multinucleate phase? a. Meristem b. Cork cambium a. Sporozoite c. Phellogen d. Cortex c. Trophozoite 4. Which is undivisible in *Ulothrix*? 12. Elaboration of RBC isa. Apical cell b. Applanospore a. Red Blood Cell c. Holdfast d. Akinete c. Red Brown Corpuscle d. Red Blood Corpuscle 5. What is the name of brown scale which covers 13. Which is the example of triploblastic animal? the rhizome of first vascular plant? a. Octopus vulgaris a. Frond b. Pinna c. Obelia geniculata c. Crozier d. Ramentum 14. Which animal is covered by ganoid scale? 6. Which one is responsible for blight disease of a. Scoliodon potato? c. Haplobatrachus a. Penicillium b. Phytophthora 15. Which cells are found numerous in *Hydra*? d. Pythium c. Vibrio a. Musculo-epithelial 7. Bacteria attached itself with host by which of the c. Sensory following? Observe the following stem and answer the a. Pilli b. Flagella questions 16 and 17: c. Capsid d. Mesosome Read the following stem and answer question number 8 and 9. By observing a sample plant of chlorophyceae family in Biology practical class, students saw a long green filamentous and unbranched part. Its

b. Chlorococcus

d. Mucor

growth is unlimited and bears pyrenoid type

9. What are the features of above sample?

8. The sample plant of stem is-

chloroplast.

a. *Ulothrix* 

c. Oedogonium

i. Cells are spiral

ii. Thin cell wall

iii. Chloroplast present

16. The animals in the picture belong to-

a. Platyhelminthes b. Cnidaria c. Arthropoda d. Nematoda 17. What is the excretory unit of the above animals

of the stem?

a. Nephron b. Nephridia c. Malpighian tubules d. Flame cell

3

b. i and iii

b. i and iii

d. i. ii and iii

b. Schizont

b. Red Blue Cell

b. Taenia solium

d. Panthera tigris

d. Neoceratodus

d. Signet ring

b. Tenualosa

b. Interstitial

d. Cnidocyte

d. i, ii and iii

18. Grasshopper supplies nutrients for the sperm fromi. seminal vesicle ii. spermatheca iii. ejaculatory duct Which is correct? a. i b. ii c. iii d. i, ii and iii 19. Rohu fish is main carp fish of Bangladesh. Iti. belongs to cyprinidae family ii. found in fresh water iii. bony fish Which is correct? b. ii a. i d. i, ii and iii c. iii 20. Which one shows contraction and expansion? a. Brain b. Kidney c. Blood d. Heart 21. The locomotion of WBC is calleda. gliding b. looping c. somersaulting d. amoeboid 22. Thorax and abdomen separating membrane isb. alveolous a. pleura c. trachea d. diaphragm 23. Adult grasshopper is calleda. blastula b. imago c. nymph d. larva 24. Division of the zygote is calledb. morulation a. embryo c. cleavage d. oogenesis 25. Haemocoel is found ina. earthworm b. grasshopper

d. human

c. lion