*			Inter (Part-I)-A-2022	
Roll No. (To be filled in by candidate) Biology (Objective Type) Time: 20 Minutes NOTE: Write answers to the questions on the			(For all sessions)	aper Code 6 4 6 1
			Rup-2	Marks: 17
N				
	A,B,C and D to each circle A,B,C or D give	question are given. en in front of each qu	Which answer you consider correct testion with Marker or pen ink on the	e answer sheet provided.
1.1.	Mammals became domina	ant in:	•	
,,,,,	(A) Cenozoic era	(B) Mesozoic e	era (C) Palaeozoic era	(D) Proterozoic era
2.	Fats are insoluble in:			
	(A) Ether	(B) Alcohol	(C) Water	(D) Chloroform
3-	Co-enzyme is closely related	ted to:	* *	
	(A) Minerals	(B) Proteins	(C) Enzymes	(D) Vitamins
4.	Haploid Chromosome nur		nelanogaster is:	
	(A) 8	(B) 4	(C) 23	(D) 13
5.	Micro-organisms which are	e composed of only	proteins:	
	(A) Viroids	(B) Virion	(C) Prions	(D) Bacteria
6.	Prokaryotes that do not he	ave peptidoglycan c	ell wall are:	
	(A) Cyanobacteria	(B) Gram-Posi		(D) Gram-Negative Bacteri
7.	Protozoans having two kinds of Nuclei are called:			
	(A) Actinopods	(B) Ciliates	(C) Zooflagellates	(D) Apicomplexans
8.	Histoplasmosis is a seriou			
٠.	(A) Heart	(B) Brain	(C) Kidney	(D) Lungs
9.	Pteropsida is further sub-	divided into:		
	(A) 2-classes	(B) 3-classes	(C) 4-classes	(D) 5-classes
10.	Flame cells collect waste		fluid, so part of:	
	(A) Respiratory system			m (D) Nervous system
11.			of air, it shows their swimmer blade	der is connected with:
	(A) Pharynx	(B) Larynx	(C) Esophagus	(D) Epiglottis
12.			duce one molecule of Triose sugar	r are:
	(A) 3	(B) 6 '	(C) 4	(D) 2
13.			is provided by the Phenomenon of	f:
	(A) Photosynthesis	(B) Respiration		(D) Excretion
14.	In root nodules, nitrogen f	ixing bacteria conve	rt nitrogen into:	
	(A) Ammonia	(B) Urea	(C) Nitrates	(D) Uric Acid
15.	In earthworm, exchange of	f gases mainly occu	irs through:	
	(A) Gills	(B) Lungs	(C) Book Lungs	(D) Skin
16.	Average velocity of sugar movement in Phloem is 1m/hour but rate of diffusion is 1m/eight years. It			
	shows diffusion is:			
	(A) Too fast	(B) Medium pro	ocess (C) Slow and fast	(D) Too slow
17.			guard cells increases, then water p	ootential in guard cells:
•••	(A) Decreases	•	(B) Increases	
	(C) Not change		(D) increases and th	nen Decreases

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Roll No._ (to be filled in by the candidate)

(For all sessions)

Biology (Essay Type)

Marks: 68 Time: 2:40 Hours 2x22=44 2x8=16

Write short answers of any eight parts from the following.

ii. Why poisons act as inhibitors?

i. Which type of Carbohydrate is stored in our liver and muscle cells? Give its two characteristics.

iii. How can the effect of reversible inhibitors be neutralized?

iv. Why co-factors are necessary for proper functioning of enzymes?

v. What is Nuclear mitosis? In which organisms it occurs?

vi. What are Conidia? How they differ from spores?

vii. What is Pseudocoelom. In which group of organisms it is found? viii. Differentiate between radial and bilateral symmetry.

ix. Name the three bones of middle ear.

x. What is the role of Swim bladder in fishes?

xi. What are accessory pigments? Give examples.

xii. What is oxidative phosphorylation

3. Write short answers of any eight parts from the following.

2x8=16

i. Define Chemotherapy. Mention its disadvantages.

iii. In what way mitochondrial matrix is of vital

Differentiate between inductive and deductive reasoning.

importance?

iv. Narrate any four functions of smooth endoplasmic reticulum.

v. Do you know about flagellate who lives as symbiont?

vi. On what basis it is accepted that green algae are ancestor of plants?

vii. What are actinopods?

What are diatoms?

ix. Distinguish between monocots and dicots.

What is annulus and stomium?

xi. Define bleeding.

What do you know about myocardial infarction?

4. Write short answers of any six parts from the following.

i. Write down four symptoms of AIDS.

State the postulates of germ theory of disease.

iii. What is heart burn?

apparatus

How Jaundice is caused?

v. What is omnivorus mode of nutrition in animals?

How breathing is different from cellular respiration?

vii. What is photorespiration? How it affects the plant growth?

viii. What is vocal cord? Write its function.

ix. Why respiratory system of birds is most elaborated?

Section - II

NOTE: Answer any three questions from the following. 8x3=24 5. (a) How reasoning is used to tentatively explain a set of observations? (b) Define osmosis and describe different pathways adopted by water to reach xylem tissue. (b) Discuss various methods of asexual 6. (a) Compare fibrous proteins with globular proteins. reproduction in Fungi. 4+4=8 7. (a) How bacterial walls show different colours during (b) How seed formation is important for land plants? Write any two steps of seed evolution. staining? Discuss differences between major bacterial groups based upon cell wall. (b) What is glycolysis? Draw its scheme of 3+5=8 8. (a) Give classification of corn plant. reactions and give its energy balance. 9. (a) Explain the structure and functions of Golgi (b) Explain the phenomenon of digestion in

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