			4 11.1.1.			2021	to 2022 - 2024)
Roll No		dinb	y the candidate) (A Annual-(INTER PA	Acader DT_	nic Sessions 2019 Time Al	- 2021 lowed	: 20 Minutes
BIOLOG	T (Ol ' - d' T		CDOUD I		Maximu	m Ma	rks : 17
•	C – I (Objective Type)	PAPE	CR CODE = 6461	L	H12-11-1-	23	
Note: Fo	Nets a Four possible answers A B C and D to each question are given. The choice which you think is correct,						
fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting of Hintig							
tv	vo or more circles will result in	zero	mark in that question	n.			
1-1	.The reasoning which move					(D)	T 1
	(A) Productive		Inclusive		Deductive	(D)	Inductive
2	Nucleohistones play an imp	ortai	nt role in the regula	tion c	of :		
	(A) Assimilation		Nerve impulse				
	(C) Gene expression		Gene replication				
3	Which is active form of pro	otein	digesting enzyme				
	(A) Lipase	(B)	Pepsin	(C)	Pepsinogen	(D)_	Amylase
4	Who discovered the nucleu	s in t	he cell 1 st time:				
	(A) Robert Koch	(B)	F. Mischer	(C)	P.A Leven	(D)	Robert Brown
5	The major cells infected by	HIV	are:				
	(A) Red blood cells	(B)	White blood cells				
	(C) T-lymphocyte	(D)	Platelets				
6	Spirochete bacteria are:						
	(A) Thick	(B)	Rigid				
	(C) Thin and flexible	(D)	Rigid and flexible				
7	Which parasitic flagellate	cause	sleeping sickness	:			
	(A) Abacter	(B)	Trypanosoma	(C)	Paramecium	(D)	Stentor
8	The ecological aspect of fu						
,	(A) Runner		Parasitic	(C)	Pathogenic	(D)	Recycler
9	The example of arthrophyt	\ /		_(_)_			
			Lycopodium	(C)	Psilotum	(D)	Selaginella
10	(A) Equisetum The internal buds in the sp			(C)	1 Shotum	(D)	Beingmena
10				(0)	Commulas	(D)	Blastostyle
	(A) Substratum		Osculum fishes include the	(C)	Gemmules	(D)	Biastostyle
11	The most primitive and jav					(D)	0 1.
	(A) Chondrichthyes		Cyclostomata	(C)	Osteichthyes	(D)	Operculata
12	Which one is energy captu	ring	process:				-
	(A) Thermodynamics		Photosynthesis	(C)	Respiration	(D)	Bioenergetics
13	In which part of chloropla	st dar	k reactions take pla	ace:			
	(A) Grana	(B)	Intergrana	(C)	Stroma	(D)	Thylakoid
14	Which is the example of o	mniv	ore:		•		
	(A) Earthworm	(B)	Parrot	(C)) Goat	(D)	Crows
15	The volume of residual air						
	(A) 1.5 litre		3.5 litre	(C) 5 litre	(D)	2.5 litre
16					(
			Neutrophils	(C) Oesinophils	(D)	Leptophils
17	(A) Basophils Antibodies are manufacture			<u>(C</u>	Comopinis	(2)	
1/	Antibodics are mandiacta	11.					

(A) B lymphocytes

(D) Bryophytes (B) Erythrocytes 43-223-I-(Objective Type)- 8000 (6461)

(C) Leucocytes

MI No (To be filled in by the candidate) (Academic Sessions 2019 - 2021 to 2022 - 2020 BIOLOGY	4)
	16
2. Write short answers to any EIGHT (8) questions:	10
(i) Give the function of mRNA.	
(ii) Define reversible and irreversible inhibitors.	
(iii) Differentiate between apoenzyme and holoenzyme.	
(iv) Give the effect of temperature on the rate of enzyme action.	
(v) What is aspergillosis?	
(vi) Give two ecological importance of fungi.(vii) Compare bilateral symmetry and radial symmetry.	
(vii) Compare bilateral symmetry and radial symmetry. (viii) Give two characteristics of phylum Cnidaria with example.	
(ix) What are tunicates? Give example.	
(x) Why birds have gizzard, justify.	
(xi) What are cytochromes? Give their role.	
(xii) Define Glycolysis, where it takes place?	
3. Write short answers to any EIGHT (8) questions:	16
(i) What is the use of chemotherapy?	
(ii) Define biodiversity. Give percentage of different groups of organisms.	
(iii) Write down functions of endoplasmic reticulum. (at least 4)	
(iv) What is cell fractionation?	
(v) Give important features of red algae.	
(vi) What are trichonymphas, give role.	
(vii) Define thallus.	
(viii) Give two features of ciliates.	
(ix) What are fronds?	
(x) Differentiate between homospory and heterospory.	
(xi) Why pericardium is important for heart?	
(xii) What do you know about blue babies?	12
4. Write short answers to any SIX (6) questions:	
(i) Write the scientific name of potato and tomato.	
(ii) How microbes are controlled by disinfectants?	
(iii) Differentiate between ingestion and egestion.(iv) How does absorption of fats differ from absorption of glucose?	
1 1 C(in dispersion')	
1 1'CC C all-alon mooningtion	
coo ' ' ' l d monor blood	
(vii) Give percentage of CO ₂ in arterial and venous blood. (viii) Why photorespiration occurs in plants?	
(ix) What is epiglottis? Write its function.	
SECTION – II	
Note: Attempt any THREE questions.	4
5. (a) How scientific problem is resolved? Write its methodology.	4
(b) Explain lymphatic system in man.	4
6. (a) Write a note on Acylglycerols.	4
(b) Draw the life cycle of Rhizopus (Black Bread Mold).	4
7. (a) Describe chemical methods for the control of bacteria.	4
(b) Write down characteristics of anthoceropsida.	7
8. (a) Describe the infection cycle of HIV.	4
8. (a) Describe the infection cycle of HIV. (b) Photosynthesis is a energy producing process. Justify the statement.	4
	4
9. (a) What are the four main differences between prokaryotes and eukaryotes?	4
(b) Explain the phenomenon of digestion in oral cavity of human's. 43-223-I-(Essay Type)-32000	

Koll No _ BIOLOC Q.PAPER		223-	in by the candidate) 1 st Annual-(INTER GROUP – II	PAR	T - I) Time	Allowe	d: 20 Minutes
Q.PAPER – I (Objective Type) GROUP – II PAPER CODE = 6466 Maximum Marks: 17 PAPER CODE = 6466 Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.							
1-1	Loligo, Sepia and Octo	pus ar	re examples of class	:			
	(A) Bivalvia	(B)	Cephalopoda	(C)	Oligochaeta	(D) (Gastropoda
2	Bacteria divide at expo	nentia	al rate during:				
	(A) Decline phase				Lag phase	(D) S	Stationary phase
3	The number of chlorop	last in	each mesophyll ce	ll is a	bout :		
	(A) 10 – 100	(B)	10 - 200	(C)	20 – 100	(D) 2	20 – 200
4	In free state, glucose is	prese	nt in:				
	(A) Dates	(B)	Amylose	(C)	Glycogen	(D) C	Cellulose
5	Histamine is produced	by:					
	(A) Neutrophils	(B)	Oesinophils	(C)	Basophils	(D) N	Monocytes
6	Fungi can tolerate wide	range	e of pH from:				
	(A) 2-9	(B)	3 – 10	(C)	4 – 11	(D) 1	– 13
7	The nucleus and cytop						
	(A) Cytosol	(B)	A Sol.	(C)	A Gel	(D) P1	rotoplasm
8	The number of species						
	(A) 17.6	(B)	53.1	(C)	19.9	(D) 9	.4
9	Madreporite is related			······································			
	(A) Annelida	(B)	Echinodermata	(C)	Birds	(D) N	Mollusca
10	The number of air sacs		A CONTRACTOR OF THE CONTRACTOR				
	(A) 6	(B)	7	(C)	8	(D)	9
11	Double fertilization occ	\ /	1:				
	(A) Bryophyta	(B)	Pteridophytes	(C)	Angiosperms	(D) (Gymnosperms
12	Hepatitis "D" is also c						
	(A) Serum hepatitis		(B) Infectious hep	atitis			•
	(C) Delta hepatitis		(D) Bacterial hepa				
13	The left systemic disap		<u> </u>	icitis			
	(A) Amphibians	(B)		(C)	Fishes	(D) 1	Reptiles
14	Mosquitoes inject plass				Tiones	(2) 1	topines
	(A) Cysts		Sporozoites		Merozoites	(D) (Gametocytes
15	Non-protein part attach			(0)	1.1010201100	(2)	
	(A) Activator	(B)	Coenzyme	(C)	Co-factor	(D) S	Substrate
16	Dark reactions take pla		Coolizyine	(0)	OO IMOTOI	(2)	
	_		Grana	(C)	Stroma	(D) I	Mitochondria
17	(A) Thylakoids Liver secretes bile into		Giana	(0)	Suoma	(1)	
			Duodenum		leinnum	(D) I	lum
	(A) Stomach	(D)	Duodenum	(0)	Jejunum	ו (ע)	,∧uiii

Roll N		024)					
BIOL	OGY 223-1 st Annual-(INTER PART – I) Time Allowed: 2.40 ho						
PAPE	R-I (Essay Type) GROUP-II Maximum Marks: 68						
	SECTION-I CHR-11-2-23						
2. W	rite short answers to any EIGHT (8) questions:	16					
	Differentiate between fibrous and globular proteins.	10					
(ii)							
(iii)	Explain effects of PH at the activity of enzymes.						
	Distinguish between irreversible and reversible inhibitors.						
	What do you know about active predators fungi?						
(vii)	How does corals differ from coral reefs?						
, ,							
	Why varanope is important in mammals?						
	Define bioenergetics.						
(xii)	What is the role of RUBP for plants?						
3. Wı	rite short answers to any EIGHT (8) questions:	16					
	Differentiate tissue and organ level.	10					
	What is the effective control of a disastrous disease, write shortly?						
	Define fluid mosaic model of cell membrane.						
, ,	What are ribonucleo-proteins? What are their functions?						
	How choanoflagellates differ from trichonymphas?						
	Why the ciliates have two nuclei?						
	How phylum rhodophyta is unique from the other groups of algae?						
	Write a short note on amoebas.						
,	Differentiate class gymnospermae from angiospermae.						
100	What are arthrophytes? Write down the name of one living organism.						
	What is the result of uncontrolled growth of white blood cells?						
	Define the term guttation.						
	rite short answers to any SIX (6) questions:	12					
	HIV is host specific. Give reason.	12					
. ,							
	What are plasmids? What are gastric glands?						
(iv)	Differentiate between appendix and appendicitis.						
(v)	How tripsinogen is activated?						
. ,	Compare composition of inhaled and exhaled air.						
	How diving mammals differ from non divers?						
	What is asthma?						
•	Differentiate between pleura and diaphragm.						
()							
SECTION – II							
Note:	• •						
	Describe the conservation and protection of environment.	4					
(b)	In what way transpiration is evil or beneficial for plants.	4					
6. (a)	What are oligosaccharides? Give example.	4					
(b)	Describe land adaptation of fungi.	4					
7. (a)	How many groups of bacteria are present in nature on the basis of shape of bacteria?	4					
		4					
• •	Write a detailed note on Hepatitis, causes and different types.	4					
(b)	What is oxidative phosphorylation? Explain respiratory ETC.	4					
9. (a)	Write a note on golgi apparatus.	4					
	Describe digestion in oral cavity in man.	4					
. ,	133-223-II-(Essay Type)-27000						