				· · · · · · · · · · · · · · · · · · ·	-			
NT -	LH	R-G71-	11.	in by the candidate 9-(INTER PART	N 200			
No L O (71/	(lobe	filled	on by the candidate	(Ac	ademic Sessions 2	015 – 201	7 to 2018 – 2020)
	s I R – I (Obie	ctive Type)	21	GROUP - I	- 1)			ea : 20 Minutes farks : 17
	· I(ooje	oure Type)		APER CODE = 6	6467	Max	initalii iv	urks . 17
f	ill that circl	e in front of th	at que	D to each question a stion with Marker of	r Pen	en. The choice wink in the answer	vhich you r-book,	think is correct, Cutting or filling
				ero mark in that que food is temporarily				
1-1				1.0			The Landson	man and
	(A) Rect			Gizzard	(C)	Crop	(D)	Colon
2	2 Most common smut fungi are :							
	(A) Usti	lago	(B)	Puccinia	(C)	Penicillium	(D)	Yeast
3	AIDS is c	aused by:						022
	(A) Fung	gi	(B)	Bacteria	(C)	Virus	(D)	Algae
4	Ascaris L	umbricoides i	s an ir	ntestinal parasite of	f :	**************************************		
	(A) Mon			Man		Horse	(D)	Camel
5		are common	. ,		(0)	110130	(D)	Cunci
N=K	(A) Whi			Horse tails	(C)	Club mosses	(D)	Hornworts
6		a pure form of		Horse tans	(0)	Ciub mosacs	(1)	Homworts
		150 170		CI.	(0)	***	(5)	
	(A) Celli			Glycogen	(C)	Wax	(D)	Starch
7	The casparian strips are present in:							
	(A) Cortex cells of roots (B) Cells of pericycle							
er .	(C) Endodermis cells of roots (D) Cells of phloem							
8	Which on	e of the follow	ving is	s aerobic bacteria	:			
	(A) Cam	pylobacter	(B) I	E.Coli	(C)	Pseudomonas	(D)	Spirochaete
9	In respirat	ory chain NA	DH is	oxidized by:				
	(A) Cyto	chrome b	(B)	Co-enzyme Q	(C)	Oxygen	(D)	H_2O
10		f stomach are						
	(A) Skel			Smooth	(C)	Cardiac	(D)	Voluntary
11	2007.2			ns is composed of	250 50		(2)	
•	(A) Nepl	10.		Nephridia		Flame cells	(D)	Villi
12		ike cyanide ar	100000		(0)	r lame cens	(D)	A 1111
12								
	(A) Enzy		37 375	Co-enzymes	(C)	Inhibitors	(D)	Co-factors
13	The respir	atory system	is mos	st efficient in :				
	(A) Man		(B)	Birds	(C)	Fish	(D)	Snake
14	Which me	tal atom is pr	esent	in chlorophyll:				
	(A) Cu		(B)	Fe	(C)	Mg	(D)	K

15 The substance which inhibits blood clotting :

16 Common name for pyrrophyta is:

Cell membrane has 60 - 80%:

(B) Histamine

(B) Diatoms

(B) Proteins

(A) Heparin

(A) Lipids

(A) Euglenoids

43-219-I-(Objective Type)- 8750 (6467)

(C) Fibrin

(C) Dinoflagellates

(C) Carbohydrates

(D) Albumin

(D) Kelps

(D) Vitamins

L'Italy and Same	ions 2015 - 2017 to 2018 - 2020)	1
Roll No (To be filled in by the candidate) (Academic Sess 219-(INTER PART - I)	Time Allowed: 2.40 hours	
RIOLOGY	3.6 · Manka : 60	
PAPER - I (Essay Type) GROUP - I	G'-//-/9 16	
SECTION-I CAR.	9-1116 16	
2. Write short answers to any EIGHT (8) questions :	1/-/7	
(i) Define conjugated molecules.		
(ii) How enzyme concentration affects the rate of enzyme action?		
(iii) Define lock and key model of enzyme.		
(iv) What is enzyme to enzyme chain?		
(v) Differentiate between fragmentation and budding in fungi.		
(vi) What is mycorrhizae? Give its types.		
(vii) Differentiate between proterostomia and deuterostomia.		
(viii) Define polymorphism. Also give example.		
(ix) What do you know about class hirudinea?		
(x) Write down some general characteristics of class chondrichthyes.		
(xi) Define chemiosmosis.		
(xii) Write down the molecular formulae of chlorophyll " a " and " b "	16	
3. Write short answers to any EIGHT (8) questions :		
(i) Differentiate between biocontrol and bioremediation.		
(ii) What is cloning? Write one method of cloning.		
(iii) How intermediate filaments support cell?		
(iv) Give role of vacuole in plant cell.		
(v) Why slime molds are included in kingdom protoctista?		
(vi) Differentiate between zooflagellates and dinoflagellates.		
(vii) Why euglena is difficult to classify?		
(viii) Write features of chrysophyta.		
(ix) Differentiate between monocots and dicots.		
(x) Which plant group is called arthrophytes and why?		
(xi) What are lenticels? Write their use.		
(xii) Give blood route in fish circulatory system.	12	
4. Write short answers to any SIX (6) questions:	*	
(i) What is capsid and capsomeres?		
(ii) What is contribution of Louis Pasteur in microbiology?		
(iii) What are hunger pangs?		
(iv) What are hemorrhoids?		
(v) Define assimilation.		
(vi) What are spiracles?		
(vii) Why photorespiration occurs in plants?		
(viii) What are parabronchi?		
(ix) What is respiratory distress syndrome?		
SECTION – II		
Note: Attempt any THREE questions.	4	
5 (a) Write in detail, drug treatment and gene therapy.	4	
(b) Discuss functions of lymphatic system.		
and accordant structure of protein.	4	
(a) Describe primary and secondary structure of protein. (b) Discuss asexual reproduction in fungi.	4	Ľ.
	4	ŀ
7. (a) Discuss nutrition of bacteria.	4	Į.
(b) Describe economic importance of poaceae.	4	•
8. (a) Discuss life cycle of bacteriophage.		•
(b) Sketch two phases of glycolysis.		
9. (a) Describe structure and functions of mitochondria.		4
(1) Discuss process of absorption in large intestine.		4
(b) Discuss process of absorption 11 43-21	19-I-(Essay Type)-35000	

oll No _ IOLOG`	(To be filled in by the candida Y 219-(INTER PART	te) (A- ' – I)	cademic Sessions Tin	2015 – 20 ne Allow	ed: 2018 – 2020
	-I (Objective Type) GROUP - II		Ma	ximum N	Marks: 17
	PAPER CODE =	6466	LHR-	32-1	(-17
te: Fo	ur possible answers A, B, C and D to each question that circle in front of that question with Marker	or Per	ven. The choice in ink in the answ	er-book.	Cutting or filling
tw	o or more circles will result in zero mark in that qu	estion		27.	
1-1	Organ of voice in birds is called as !				
3	(A) Syrinx (B) Larynx	(C)	Tongue	(D)	Pharynx
2	Cell wall is only absent in :				
	(A) E.Coli (B) Diplocaccus p	neum	óniae		
	(C) Hypomicrobium / (D) Mycoplasma	1			
3	Haem portion of haemoglobing salso a porphy	rin rit	ng but containir	ng on iron	n instead of:
	(A) Magnesium (B) Polassum	(C)	Sodium	(D)	Chlorine
	Total number of aming action insulin are :				
	(A) 51 (B) 14	(C)	151	(D)	50
- 5	Basonbils produce a substance that inhibits bl	ood cl	otting.		
	Basophils produce a substance that inhibits ble (A) Heparin (B) Platelets	(C)	Fibrinogen	(D)	Eosinophil
	Loose smut of wheet is caused by :	(-)			
0	N. Carlotte and Ca	(C)	Asperaillus	(D)	Alternaria
		(0)	Asperginus	(5)	
7	The factory of ribosome is the:	(6)	011	(D)	Vacuole
	(A) Nucleolus (B) Mitochondria			(17)	vacuote
8	Radiotherapy and chemotherapy are used in the			(D)	A (1
	(A) Fever (B) Cancer	(C)	Dengue	(D)	Arthritis
9	Mammals become dominant in the:				
	(A) Ordovician period (B) Silurian period	1			
	(C) Cenozoic period (D) Devonian peri				
10	Most elaborate and efficient respiratory system	n is pi	resent in:		
	(A) Man (B) Fish	(C)	Birds	(D)	Reptiles
11	The earliest group of vascular plants is:				
	(A) Lycopsida (B) Sphenopsida	(C)	Psilopsida	(D)	Pteropsida
12	Pig could be the source of infection of hepatit	is :	·		
	(A) A (B) B	(C) E	(D)	C
13	The left systemic arch disappears in:				
	(A) Mammals (B) Fish	(C)	Reptiles	(D)_	Birds
14	Trypanosoma is an example of:	***************************************			
	(A) Amoebae (B) Zooflagellates	(C)	Ciliates	(D)	Foraminiferat
15	The enzyme with optimum pH 5.50 is:	mirror distri			
	(A) Arginase (B) Sucrase	(C)) Pepsin		Enterokinase
16	In the first step of the citric acid cycle, acetyl	-CoA	reacts with oxa	loacetate	to form:

(D) Chief cells 133-219-II-(Objective Type)- 4500 (6466)

(C) Malate

(B) Rubisco

(B) Oxyntic / parietal cells

In human stomach HCl is secreted by :

(A) Succinate

(A) Mucous cells

(C) Zymogen cells

ill No	(To be filled in by the candidate) (Academic Ses	sions 2015 2017 to 2018 2020)
OLO	B arrier	Time Allowed: 2.40 hours	
	SECTION I / MR - Ca	2 11 10	
***	SECTION - I LHR-G	4-11-19	16
	te short answers to any Elonii (o) questions.	- 1 - 100000 - 10000	10
	What are conjugated compounds?		
	Differentiate between prosthetic group and coenzyme. How enzyme substrate complex is formed?		
	If more enzymes are added in a system its rate of reaction remain	unchanged why?	
	Define rust. Give example.	unchanged, why:	
	What are symptoms of ergotism?		
vii)	Differentiate between enterocoelous and schizocoelous feature.		
0.000	What is blastostyle?		
	How madrepora is important?		
	Write similarities of birds and reptiles.		
	Draw action spectrum showing photosynthesis rate at various ligh	t colours.	
	Differentiate between chlorophyll – a and chlorophyll – b.		
Wri	te short answers to any EIGHT (8) questions :		16
	Define biotechnology.		
3.0	What is deductive reasoning?		
	What is magnification?		
	Describe salient features of cell theory.		
	What is thromboembolism?		
(vi)	What is systemic circulation?		
vii)	How green algae and plants are identical?		
	What are trichonymphas?		
	Write two characteristics of dinoflagellates.		
	What are the basis of diversity in protista?		
	What is protonema?		
5	What are integuments?		
	ite short answers to any SIX (6) questions:		12
	Give disadvantages of common names.		
	Name different types of bacteria on the basis of flagella presence.		
	Enlist various functions of oral cavity.		
	What is peristalsis and antiperistalsis?	6:	
	Tubular digestive system is more efficient than sac like digestive.	system. Give reasons.	
(vi) (vii)	Why ventilation in water is far more difficult than air? Write down the causes of asthma.		
	What happens when diving reflex is activated?		
(ix)	Briefly describe tuberculosis.		
()			
	SECTION - II		
ote :	Attempt any THREE questions.		4
(a)	Write a note on protection and conservation of environment.		4
(b)	Give any eight functions of blood.		4
(a)	What are polysaccharides? Discuss starch and glycogen in detail		4
(b)	Describe, giving examples, different ways in which fungi are use	ful to human.	4
(a)	Describe characteristics of cyanobacteria.		4
(b)	What adaptation made bryophytes able to live on land?		4
(a)	Describe lytic cycle of bacteriophage.		4
(a) (b)	Write note on Calvin Cycle.		4
			20
(a)	Define plastids. Discuss structure and function of chloroplast.		4
(b)	Discuss the process of absorption of food in small intestine.	LIL (Feeny Type) 19000	4
	135-215	9-II-(Essay Type)-18000	