IFNO	(To be filled in by the candidate	e) (Academic Sessions 2015	- 2017 to 2018 - 2020 )		
DLOCY	219-(INTER PART -	-1) 1 1110 7 11	nowed . Do manufer		
PAPER -	I (Objective Type) GROUP – I		ım Marks : 17		
	PAPER CODE = 0	are given The choice which	ch you think is correct,		
fill t	hat circle in front of that question with Marker of or more circles will result in zero mark in that que	estion.	ook. Cutting or filling		
1-1 E	xcretory system of flatworms is composed of	: *			
	A) Nephron (B) Nephridia	(C) Flame cells	(D) Villi		
	which one of the following is aerobic bacteria	:			
	A) Campylobacter (B) E.Coli	(C) Pseudomonas	(D) Spirochaete		
3 1	n respiratory chain NADH is oxidized by :		1		
	A) Cytochrome b (B) Co-enzyme Q	(C) Oxygen	(D) H <sub>2</sub> O		
4 0	Cotton is a pure form of :		and the second second		
	A) Cellulose (B) Glycogen	(C) Wax	(D) Starch		
	The casparian strips are present in :				
	(A) Cortex cells of roots (B) Cells of pericycle				
	C) Endodermis cells of roots (D) Cells	of phloem			
	Mosi common smut fungi are :				
	(A) Ustilago (B) Puccinia	(C) Penicillium	(D) Yeast		
	Cell membrane has $60 - 80\%$ :				
	(A) Lipids (B) Proteins	(C) Carbohydrates	(D) Vitamins		
	Muscles of stomach are of which type :				
	(A) Skeletal (B) Smooth	(C) Cardiac	(D) Voluntary		
9	Ascaris Lumbricoides is an intestinal parasite	of :			
	(A) Monkey (B) Man	(C) Horse	(D) Camel		
10	The respiratory system is most efficient in :				
10	(A) Man (B) Birds	(C) Fish	(D) Snake		
11	Lycopsids are commonly called :				
	(A) Whisk ferns (B) Horse tails	(C) Club mosses	(D) Hornworts		
12	AIDS is caused by :				
12	(A) Fungi (B) Bacteria	(C) Virus	(D) Algae		
12	The substance which inhibits blood clotting	:			
13		(C) Fibrin	(D) Albumin		
14	(A) Heparin(B) HistamineCommon name for pyrrophyta is :				
14		(C) Dinoflagellates	(D) Kelps		
	(A) Euglenoids(B) DiatomsPoisons, like cyanide are examples of :	(-)			
15		(C) Inhibitors	(D) Co-factors		
	(A) Enzymes (B) Co-enzymes Which metal atom is present in chlorophyll				
16		(C) Mg	(D) K		
an a	(A) Cu     (B) Fe       In cockroach partly digested food is tempor				
17		(C) Crop	(D) Colon		
9	(A) Rectum (B) Gizzard	3-219-I-(Objective Type			

Roll No (To be filled in by the candidate) (Academic Se	ssions 2015 – 2017 to 2018 – 2020 ). Time Allowed : 2.40 hours
BIOLOGY 219-(INTER PART – I)	Maximum Marks : 68
PAPER – I (Essay Type) GROUP – I	Maximum Marks . 00
SECTION – I	
2. Write short answers to any EIGHT (8) questions :	16
(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.	
<ul><li>(vi) What is mycorrhizae? Give its types.</li><li>(vii) Differentiate between proterostomia and deuterostomia.</li></ul>	
(vii) Define polymorphism. Also give example.	2
(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	··
3. Write short answers to any EIGHT (8) questions :	16
(i) Differentiate between biocontrol and bioremediation.	
(i) What is cloning? Write one method of cloning.	
(iii) How intermediate filaments support cell?	
(iv) Give role of vacuale 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?	
<ul><li>(xi) What are lenticels? Write their use.</li><li>(xii) Give blood route in fish circulatory system.</li></ul>	
	12
4. Write short answers to any SIX (6) questions :	
<ul><li>(i) What is capsid and capsomeres?</li><li>(ii) What is contribution of Louis Pasteur in microbiology?</li></ul>	
<ul><li>(iii) What are hunger pangs?</li><li>(iv) What are hemorrhoids?</li></ul>	
<ul><li>(iv) What are hemorrhoids?</li><li>(v) Define assimilation.</li></ul>	
(v) What are spiracles?	
(vii) Why photorespiration occurs in plants?	
(viii) What are parabronchi?	
(ix) What is respiratory distress syndrome?	
SECTION – II	
	4
<ul><li>5. (a) Write in detail, drug treatment and gene therapy.</li><li>(b) Discuss functions of lymphatic system.</li></ul>	4
	4
6. (a) Describe primary and secondary structure of protein.	4
(b) Discuss asexual reproduction in fungi.	
7. (a) Discuss nutrition of bacteria.	4
(b) Describe economic importance of poaceae.	4
8. (a) Discuss life cycle of bacteriophage.	4
(b) Sketch two phases of glycolysis.	1941 Chinale been expressed approximation of st
	4
9 (a) Describe structure and functions of mitochondria	
<ul><li>9. (a) Describe structure and functions of mitochondria.</li><li>(b) Discuss process of absorption in large intestine.</li></ul>	4

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Roll No	(To be filled in by the candidate) (Academic Sessions 2015 – 2017 to 2018 – 2020)
BIOLOG	
Q.PAPER	- I (Objective Type) GROUP - II Maximum Marks : 17
Note - Ea	<b>PAPER CODE</b> = $6462$ bur possible answers A, B, C and D to each question are given. The choice which you think is correct,
fil	I that circle in front of that question with Marker or Pen ink in the answer-book. Cutting of fining
tw	yo or more circles will result in zero mark in that question.
1-1	
	(A) Fever (B) Cancer (C) Dengue (D) Arthritis
2	Total number of amino acid in insulin are :
	(A) 51 (B) 141 (C) 151 (D) 50
3	The enzyme with optimum pH 5.50 is :
	(A) Arginase (B) Sucrase (C) Pepsin (D) Enterokinase
4	The factory of ribosome is the :
	(A) Nucleolus (B) Mitochondria (C) Chloroplast (D) Vacuole
5	Pig could be the source of infection of hepatitis :
5	
6	Cell wall is only absent in :
	(A) E.Coli (B) Diplococcus pneumoniae
	(C) Hypomicrobium (D) Mycoplasma
7	
	(A) Amoebae (B) Zooflagellates (C) Ciliates (D) Foraminiferan
8	Loose smut of wheat is caused by :
	(A) Ustilago (B) Penicillium (C) Aspergillus (D) Alternaria
9	
	(A) Lycopsida (B) Sphenopsida (C) Psilopsida (D) Pteropsida
10	
	(A) Syrinx (B) Larynx (C) Tongue (D) Pharynx
11	
11	
	(A) Ordovician period (B) Silurian period
10	<ul> <li>(C) Cenozoic period (D) Devonian period</li> <li>In the first step of the citric acid cycle, acetyl-CoA reacts with oxaloacetate to form :</li> </ul>
12	
12	(A) Succinate (b) Rubisco (c) in an a put containing on iron instead of :
13	(C) Chloring
	(A) Magnesium (B) rotassium (C) oburant (C)
14	In human stomach HCl is secreted by :
	(A) Mucous cells (B) Oxyntic / parietal cells
	(C) Zymogen cells (D) Chief cells
15	
$(x_i) = (x_i) + (x_i, y_i) + y_i$	(A) Man (B) Fish (C) Birds (D) Reptiles
16	
	(A) Mammals (B) Fish (C) Reptiles (D) Birds
17	
	(A) Heparin (B) Platelets (C) Fibrinogen (D) Eosinophil
L	(A) Theparin (B) Theorem (C) 133-219-II-(Objective Type)- 4500 (6462)

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(To be filled in by the candidate) (Academic Sessions 2015 - 2017 to 2018 - 2020) Rell No BIOLOGY 219-(INTER PART - I) Time Allowed : 2.40 hours PAPER – I (Essay Type) GROUP - II Maximum Marks : 68 **SECTION - I** 2. Write short answers to any EIGHT (8) questions : - 16 (i) What are conjugated compounds? (ii) Differentiate between prosthetic group and coenzyme. (iii) How enzyme substrate complex is formed? (iv) If more enzymes are added in a system its rate of reaction remain unchanged, why? (v) Define rust. Give example. (vi) What are symptoms of ergotism? (vii) Differentiate between enterocoelous and schizocoelous feature. (viii) What is blastostyle? (ix) How madrepora is important? (x) Write similarities of birds and reptiles. T (xi) Draw action spectrum showing photosynthesis rate at various light colours. (xii) Differentiate between chlorophyll -a and chlorophyll -b. 3. Write short answers to any EIGHT (8) questions : 16 (i) Define biotechnology. (ii) What is deductive reasoning? (iii) What is magnification? (iv) Describe salient features of cell theory. (v) What is thromboembolism? (vi) What is systemic circulation? (vii) How green algae and plants are identical? (viii) What are trichonymphas? (ix) Write two characteristics of dinoflagellates. (x) What are the basis of diversity in protista? (xi) What is protonema? (xii) What are integuments? 4. Write short answers to any SIX (6) questions : 12 (i) Give disadvantages of common names. (ii) Name different types of bacteria on the basis of flagella presence. (iii) Enlist various functions of oral cavity. (iv) What is peristalsis and antiperistalsis? (v) Tubular digestive system is more efficient than sac like digestive system. Give reasons. (vi) Why ventilation in water is far more difficult than air? (vii) Write down the causes of asthma. (viii) What happens when diving reflex is activated? (ix) Briefly describe tuberculosis. **SECTION - II** Note : Attempt any THREE questions. 5. (a) Write a note on protection and conservation of environment. 4 (b) Give any eight functions of blood. 4 6. (a) What are polysaccharides? Discuss starch and glycogen in detail. 4 (b) Describe, giving examples, different ways in which fungi are useful to human. 4 7. (a) Describe characteristics of cyanobacteria. 4 (b) What adaptation made bryophytes able to live on land? 4 8. (a) Describe lytic cycle of bacteriophage. 4 (b) Write note on Calvin Cycle. 4 9. (a) Define plastids. Discuss structure and function of chloroplast. 4 (b) Discuss the process of absorption of food in small intestine. 4 133-219-II-(Essay Type)-18000