Roll No	o. of Candidate :		GUJ-1-24				
BIGLO	OGY In	termediate Part-I , Cla	ss 11 <sup>th</sup> (1 <sup>st</sup> A 324- IV	/) Paper: I Group-I			
Time:	20 Minutes	OBJECTIVE	Code: 6467	Marks: 17			
fi		at question number. Use mark		noice which you think is correct, s. Cutting or filling two or more			
1. 1-	Retroviruses have spec	cial enzyme which can conv	vert a single stranded RN	A to double stranded DNA,			
	(A) catalase	(B) reverse transcriptase	(C) sucrase	(D) arginase			
2 -	The substance which is	nhibits blood clotting is					
	(A) heparin	(B) histamine	(C) fibrin	(D) albumin			
3 -	What happens to Oxyg	en in respiratory electron tr	ransport chain?				
	(A) forms CO <sub>2</sub>	(B) released as gas	(C) forms NAD	(D) reduced to H <sub>2</sub> O			
4 -	The causal organism o	f amoebic dysentery in hum	nan, is				
	(A) Paramecium	(B) Amoeba	(C) Tse-Tse fly	(D) Entamoeba			
5 -	This diagram shows a	Carbohydrate, CH2OH H	H	н он/ сн <sub>2</sub> он			
	What is the name of he	ond which links the two sub	OH OH	н			
		(B) A Hydrogen bond	(C) A Peptide bond	(D) Ester linkage			
6 -	Diameter of bronchiole		(C) A replice bond	(D) Ester linkage			
0 -	(A) 1 mm	(B) 2 mm	(C) 3 mm	(D) 4 mm			
7 -	Double fertilization is t		(C) 5 mm	(D) + IIIII			
,	(A) Angiosperms	(B) Gymnosperms	(C) Bryophytes	(D) Ferns			
8 -	During fermentation, the amount of energy present within the chemical bonds of glucose which is						
	converted to ATP, is	is amount of energy process	Within the chemical so	inds of gracose willow is			
	(A) 1%	(B) 98%	(C) 2%	(D) 99%			
9 -	In normal human body	, the percentage of plasma i	n blood is				
	(A) 90%	/(B) 45%	(C) 10%	(D) 55%			
10 -	New ribosomes are ass	embled in					
	(A) Nucleolus	(B) Mitochondrion	(C) Lysosomes	(D) Golgi apparatus			
11 -	A group of similar cells	s that performs a specific fu	nction is called				
	(A) system	(B) organelle	(C) organ	(D) tissue			
12 -	The phase of rapid grov	wth in bacteria is called					
	(A) stationary phase	(B) log phase	(C) lag phase	(D) death phase			
13 -	Which one of the follow	wing is the length of the gia	nt squid?				
	(A) 10 meter	(B) 50 meter	(C) 200 meter	(D) 15 meter			
14 -	The first part of small i	ntestine is called					
	(A) jejunum	(B) duodenum	(C) ileum	(D) colon			
15 -	In most of the sponges, outer layer of body wall is made up of						
	(A) Choanocytes	(B) pinacocytes	(C) erythrocytes	(D) leucocytes			
16 -	Lovastatin is used for le	owering					
1	(A) blood salts	(B) blood glucose	(C) blood pressure	(D) blood cholesterol			
17 -	The inorganic and detact	chable cofactor is called		*			
	(A) coenzyme	(B) prosthetic group	(C) activator	(D) inhibitor			
		a N	4	219-(IV)-1stA 324-28000			

Intermediate Part-I, Class 11th (1stA 324) Paper: I Group - I **JLOGY SUBJECTIVE** fime: 2:40 Hours Marks: 68 GUJ-1-24 Note: Section-I is compulsory. Attempt any three (3) questions from Section-II SECTION - I  $(2 \times 8 = 16)$ 2. Write short answers to any EIGHT questions. i - Write down the comparison between saturated and unsaturated fatty acids with example. ii - What is effect of enzyme concentration on the rate of reaction? iii - Why some enzymes are produced in inactive form? Give one example. iv - Define Induce Fit Model of enzyme and who proposed it? v - Compare obligate parasite with facultative parasite with example. vi - What are Mycorrhizae? Give their importance. vii - Give two comparisons of protostomia and deuterostomia with example. viii - Define Placenta, give its function. ix - How are Echinoderms related to chordates? x - What are prototherian mammals? Give an example. xi - Differentiate absorption and action spectrum. xii - Define Calvin Cycle. Where does it occur? 3. Write short answers to any EIGHT questions. i - Define biological method. What is biological problem? ii - How would you distinguish between biological control and bioremediation? Who stated "Omnis cellula e cellula"? What does it mean? iv - Define congenital diseases? Give examples and their causes. v - Write down name of a parasitic amoeba. What disease does it cause? vi - What are red tides? vii - Why slime moulds are included in Kingdom protoctista? viii - How Phytophthora infestans caused Irish potato famine? ix - What is the role of mitochondria in photorespiration? x - How scuba diver breaths pressurized air? xi - What is the difference between pulmonary and systemic circulation? xii - How blood helps in maintaining internal environment of body?  $(2 \times 6 = 12)$ 4. Write short answers to any SIX questions. i - Give any four symptoms of hepatitis. ii - Write down four postulates of "Germ Theory of Disease" iii - How does peristalsis differ from antiperistalsis? iv - Clarify the terms villi and microvilli. v - What are the symptoms of Nitrogen deficiency in plants? vi - Define double fertilization. Give its importance. vii - What are fronds? In which class of tracheophyte fronds are present? viii - Why Bambusa is economically important? How are Bryophytes considered as amphibians of the plants? SECTION - II 5. (a) What is Biological organization? Discuss population and community level organization. (4) (4) (b) Describe mechanism of breathing in Man. (4) 6. (a) Describe the acylglycerols in detail. (b) Draw a labelled graphic representation of life cycle of rhizopus (no description is needed). (4) 7. (a) List organelles which are single membrane bound, double membrane bound and lacking any (4) membrane? Draw a labelled diagram of a section through Mitochondria. (4) (b) Discuss following disorders: (ii) Piles (i) Food poisoning 8. (a) Define species. Discuss binomial nomenclature with biological classification of corn. (4)

(b) Define blood. How red blood cells and white blood cells are developed from stem cells in

9. (a) Discuss habitat, occurrence, structure and reproduction of Nostoc.

(b) Explain respiratory electron transport chain.

bone marrow?

(4)

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BIOLOGY Intermediate Part-I, Class 11 <sup>th</sup> (1 <sup>st</sup> A 324- IV) Paper: I Group - II									
Time:	20 Minutes	<b>OBJECTIVE</b>	Code: 6468 Gil	13-2-24 Marks:	17				
Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.									
1. 1-	The cyclosis and amoet (A) microtubules	ooid movements are due to (B) microfilaments	to (C) intermediate fila	ments (D) membrane	- શ્રાપુર્વ પો				
2 -	The stunted growth and (A) Iron	chlorosis occurs in plant (B) Magnesium	ts due to deficiency of (C) Nitrogen	(D) Zínc					
3 -	One complete heart bea (A) 1.0 sec	t lasts for (B) 0.8 sec	(C) 0.5 sec	(D) 0.2 sec					
4 -	Bacteria divide at export (A) decline phase	nential rate during (B) lag phase	(C) log phase	(D) stationary phase					
5 -	The animal which has s (A) Monkey	ingle circuit heart is (B) Sparrow	(C) Lizard	(D) Trout	₩				
6 -	The porphyrin ring of ha (A) Calcium	aemoglobin contains (B) Iron	(C) Potassium	(D) Phosphorus	•				
7 -	The poisonous mushroo (A) Agaricus	ms are called (B) Morels	(C) Truffles	(D) Toad stools					
8 -	Round worms belong to (A) annelida	phylum (B) arthropoda	(C) mollusca	(D) nematoda	*				
9 -	The maximum amount of (A) 5 liter	of air held by inflated lun (B) 4 liter	gs is (C) 4.5 liter	(D) 3.5 liter					
10 -	The optimum pH for en (A) 1.50	terokinase is (B) 3.50	(C) 5.50	(D) 7.50					
11 -	A large regional commu(A) biome	nity primarily determine (B) biosphere	d by climate. (C) ecosystem	(D) community					
12 -	Measles and Mumps are (A) adenoviruses	caused by a virus belong (B) paramyxovirus	ging to a group called (C) poxvirus	(D) poliovirus					
13 -	Loligo, Sepia and Octop (A) Bivalvia	ous are examples of class (B) Gastropoda	(C) Cephalopoda	(D) Oligochaeta					
14 -	Plastocyanin contains (A) Copper	(B) Iron	(C) Magnesium	(D) Potassium	. T				
15 -	The gametophyte of a M (A) diploid	loss is (B) haploid	(C) polyploid	(D) tetraploid					
16 -	The sexual reproduction (A) conjugation	in most of ciliates takes (B) binary fission	place by (C) Oogamy	(D) fertilization					
17 -	The normal amount of glucose in human body is								
	(A) 0.6%	(B) 0.8%	(C) 0.06%	(D) 0.08%					
	A 40			220 (IV) 1st A 224-28000	te by "				

BIOLOGY Intermediate Part-I, Class 11th (1stA 324) Paper I Group - II G147-2-24 **SUBJECTIVE** Time: 2:40 Hours Marks: 68 Note: Section-I is compulsory. Attempt any THREE (3) questions from Section-II. SECTION - I 2. Write short answers to any EIGHT questions.  $(2 \times 8 = 16)$ i - What are polysaccharides? Write down the names of four examples. ii - What is optimum temperature? iii - State the theory of "Induce Fit Model". iv - Differentiate the irreversible and reversible inhibitors. v - Basidiomycetes are called club fungi. Why? vi - Give the biological names of Rusts and Smut. vii - Differentiate grade radiata and bilateria. viii - What is pseudocoelom? How it is different from coelom? ix - How host is disinfested from a parasite? x - Differentiate Urochordata and Cephalochordata. xi - What is the mechanism for ATP synthesis in cyclic and noncyclic photophosphorylation? xii - Why Calvin cycle is also called C<sub>3</sub> Pathway? 3. Write short answers to any EIGHT questions.  $(2 \times 8 = 16)$ i - Write down the organ level in plants. ii - Why it is important to control environmental pollution in Pakistan? iii - What will happen if a chromosome loses its centromere? iv - What are leucoplasts? Give their function. v - Write down any two characteristics of diatoms. vi - Give two main characters of Oomycotes? vii - How would you compare green algae with plants? viii - What are the symptoms of Malaria? ix - Why is Larynx also known as voice box? x - What is tuberculosis? Give its causative agents. xi - What is the contribution of Dixon in Ascent of sap? xii - Transpiration is considered as a necessary evil. How? 4. Write short answers to any SIX questions.  $(2 \times 6 = 12)$ i - Define binomial nomenclature, give its rules. ii - Give comparison between amphitrichous and peritrichous bacteria. iii - Define ovule and embryo sac. iv - Differentiate between the bryophytes and tracheophytes. v - Give two vegetative characters of family Solanaceae with example. vi - Compare Dicot with Monocot plants. vii - What is macrophagous feeding? Give an example. viii - Define digestion. Write down its types. ix - Write down the role of Gastrin. SECTION - II 5. (a) Write down a note on biological organization at population and community level. (4) (b) In what ways is respiration in birds the most efficient and elaborate? (4) **6.** (a) Why Carbon is considered to occupy the central position in skeleton of life? (b) Write down the disease cycle of loose smut of wheat. (4) 7. (a) Write down in detail structure and functions of plasma membrane. (b) Describe process of digestion in cockroach with the help of labelled diagram. 8. (a) Write down the biological classification of Corn (zea mays). (4) (b) Explain pressure flow theory. (4) 9. (a) What are pleomorphic bacteria? Discuss different shapes of bacteria.

(b) What is glycolysis? Describe substrate level of phosphorylation in oxidative phase of glycolysis. (4)

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