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Roll No	o. of Candidate :		GUJ-1-24	
BIOLO	OGY In	ntermediate Part-I , Cla		V) Paper: I Group - I
Time:	20 Minutes	OBJECTIVE	Code: 6467	Marks: 17
fi	ou have four choices for ill that circle in front of the ircles will result in zero	nat question number. Use man	n as A, B, C and D. The c ker or pen to fill the circl	choice which you think is correctes. Cutting or filling two or more
1. 1-	Retroviruses have spe	ecial enzyme which can con	vert a single stranded R	NA to double stranded DNA,
	(A) catalase	(B) reverse transcriptase	e (C) sucrase	(D) arginase
2 -	The substance which	inhibits blood clotting is		/ /
	(A) heparin	(B) histamine	(C) fibrin	(D) albumin
3 -				
	(A) forms CO ₂	(B) released as gas	(C) forms NAD	(D) reduced to H ₂ O
4 -	The causal organism	of amoebic dysentery in hur	nan, is	
	(A) Paramecium	(B) Amoeba	(C) Tse-Tse fly	(D) Entamoeba
5 -	This diagram shows a		н/ н	
*		ОН		он сн2он
	What is the name of h	ond which links the two sub	H OH	H
		d (B) A Hydrogen bond	(C) A Peptide bond	(D) Ester linkage
6	Diameter of bronchiol		(C) A repude bond	(D) Ester linkage
0 -			(C) 3 mm	(D) 4 mm
7	(A) 1 mm Double fertilization is	(B) 2 mm	(C) 3 mm	(D) 4 mm
/ -			(C) Devemberton	(D) Ferns
0	(A) Angiosperms	(B) Gymnosperms	(C) Bryophytes	
8 -	converted to ATP, is	the amount of energy preser	-43	•
	(A) 1%	(B) 98%	(C) 2%	(D) 99%
9 -		y, the percentage of plasma		(D) 550/
4.0	(A) 90%	(B) 45%	(C) 10%	(D) 55%
10 -	New ribosomes are as			m) a 1 !
22	(A) Nucleolus	(B) Mitochondrion	(C) Lysosomes	(D) Golgi apparatus
11 -		ls that performs a specific fi		7 · ·
	(A) system	(B) organelle	(C) organ	(D) tissue
12 -	. /	owth in bacteria is called		American Commission
	(A) stationary phase	(B) log phase	(C) lag phase	(D) death phase
13 -	/	owing is the length of the gia	•	
	(A) 10 meter	(B) 50 meter	(C) 200 meter	(D) 15 meter
	The first part of small			
	(A) jejunum	(B) duodenum	(C) ileum	(D) colon
15 -	In most of the sponges	s, outer layer of body wall is		
	(A) Choanocytes	(B) pinacocytes	(C) erythrocytes	(D) leucocytes
16 -	Lovastatin is used for	lowering		
/	(A) blood salts	(B) blood glucose	(C) blood pressure	(D) blood cholesterol
17 -	The inorganic and deta	achable cofactor is called		
	(A) coenzyme	(B) prosthetic group	(C) activator	(D) inhibitor
			67	219-(IV)-1stA 324-28000

Intermediate Part-I, Class 11th (1stA 324) Paper: I Group - I LOGY SUBJECTIVE fime: 2:40 Hours Marks: 68 Note: Section-I is compulsory. Attempt any three (3) questions from Section-II. 2. Write short answers to any EIGHT questions. $(2 \times 8 = 16)$ 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 iii - 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? ix - How are Bryophytes considered as amphibians of the plants? SECTION - II 5. (a) What is Biological organization? Discuss population and community level organization. (4) (b) Describe mechanism of breathing in Man. (4) (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: (i) Food poisoning (ii) Piles 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 (4) bone marrow?

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

(b) Explain respiratory electron transport chain.