Roll N	o. of (Candidate :		Gu1						
BIOL	OGY	7	(INTE	RMEDIATE PAR	?T -]	(I) 321 - (IV)	Paper -	I Grou	p-II	
Time:	20 N	Minutes	OB	JECTIVE	- <u>Co</u>	de: 6468		Mark	s: 17	
fi	ill that	circle in front of th	at question mark in the	ctive type question as n number. Use marker hat question. Attemp	or pe	n to fill the circle	s. Cutting or	filling two o	r more	
1. 1-	It is	estimated that in	normal pe	rsons blood cells or	cell lik	e bodies constit	ute by volu	me of blood.		
	(A)	55%	(B)	50%	(C)	45%	(D)	40%		
2 -	The	average life span	of red blo	od cells in human is	about	month	months.			
	(A)	one	(B)	two	(C)	three	(D)	four		
3 -	Ven	ous blood contain	s carbon c	lioxide about	_·					
	(A)	50 ml / 100 ml	(B)	60 ml / 100 ml	(C)	54 ml / 100 ml	(D)	64 ml / 100	ml	
4 -				secreted in concentr	ate for	m. For the peps	in to act on	protein pH is	S	
		sted ranging from								
	, ,	1 - 2			' '			4 – 5		
5 -			10.00	sphoglycerate gives of	ne ph	osphate to ADP	to convert	into ATP		
		becomes						- V		
				2-phosphoglycerate					erate	
6 -		Alcoholic and lactic acid fermentations yield small amount of energy present within the chemical bonds of glucose which is converted into ATP. It is only about%.								
					only a					
	(A)		(B)		(C)	10	(D)	20		
7 -	Whi	ch of the followin								
		stylaria		nereis	(C)	hirudo	(D)	pheretima		
8 -		ong vertebrates sti								
				amphibians	(C)	fishes	(D)	mammals		
9 -		erfect fungi belon				5				
		zygomycota		ascomycota		deuteromycota	(D)	basidiomyc	ota	
10 -				ant is commonly cal		•				
	. ,	deodar	, ,	hemlock	(C)	sago-palm	(D)	pine		
11 -				ongs to green algae?						
		euglena		acetabularia		polysiphonia	(D)	fucus		
12 -			_	n example of spiral s						
	, ,	escherichia coli		bacillus subtilis	, ,	pseudomonas	(D)	hyphomicro	oium	
13 -				al disease is not cause						
		small pox		influenza		poliomyelitis		mumps		
14 -			-	ular organelles is ca						
		chloroplast		mitochondria		golgibodies	(D)	lysosomes		
15 -				ar respiration are fou						
	. ,	chloroplast	` '	ribosomes		mitochondria		golgibodies	}	
16 -	• •			occur in cells and tiss				1.00		
	, ,	150		140		155		170		
17 -		The branch of biology which deals with the use of living organisms, systems or processes in								
		•		stry is called						
	(A)	biotechnology	(B)	human biology	(C)	molecular biol	ogy (D)	social biolog	зу	

BIOLOGY (INTERMEDIATE PART - I) 321 Paper - I Group-II SUBJECTIVE GUT 42-2/ 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 - Define a peptide bond and how it is formed? ii - Differentiate between apoenzyme and holoenzyme. iii - What is a co-factor? Give its significance. iv - Give four characteristics of enzymes. v - How fungi differ from animals? vi - Write down a short note on omnivorous fungi. vii - Write down two differences between protostomes and deuterostomes along with examples. viii - Give asexual reproduction in sponges. (2 x 8 = 16) ix - What are polyps and medusae? x - Give four characteristics of bony fishes. xi - How dark reaction can be summarized in an equation? xii - Differentiate between chlorophyll-a and chlorophyll-b. 3. Write short answers to any EIGHT questions. i - Differentiate between fresh water and marine water biology. ii - What is theory? Write down properties of a good theory. iii - What in primary wall? Give its chemical composition. iv - Differentiate between chromoplast and leucoplast. v - Define thallus. vi - Give two characteristics of Euglenoids. vii - Mention structural features of red algae. viii - Write down four importance of algae. ix - Name floral leaves of a flower along with their functions. x - What is double fertilization? xi - Define hypertension and its cause. xii - Write down two functions of lymphatic system. 4. Write short answers to any SIX questions. $(2 \times 6 = 12)$ i - Write down any four characteristic features of viruses. ii - Write down about spiral shaped bacteria. Give all its three forms. iii - How trapping and digestion of insects occur in sundew? iv - What is dyspepsia? v - Define saprophytic nutrition. vi - How expiration occurs in human? vii - What is lung cancer? viii - How pH affects the capacity of haemoglobin to combine with oxygen? ix - Give composition of breathed air in man. (SECTION - II) 5. (a) Write down a note on "protection and conservation of environment". (4)(b) Enlist different functions that blood performs in human body. (4)6. (a) Write down a note on nucleic acids. (4)(b) Describe in detail basidiomycota. (4)7. (a) Discuss control of bacteria by physical and chemical methods. (4)(b) Write down a note on evolution of leaf. (4)

8. (a) Describe life cycle of bacteriophage.

(b) Write down a note on photosystems.

9. (a) Describe the structure and function of mitochondria.

(b) Write down food absorption in small intestine of man.

(4)

(4)

(4)

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