Al No. of Candidate :			Intermediate Part-II, Class 12th (1stA 424-		aper: II Group - II
Fime: 20 Minutes			OBJECTIVE Code: 8468 GOJF-2-24 Marks: 17		
	You!		ch objective type question a question number. Use mark	as A, B, C and D. The choice er or pen to fill the circles. Cu	which you think is correct,
1.	1.	The methyl containing (A) uracil		(C) thymine	(D) adenine
	2.	Fresh water ecosystem (A) 2%	covers less than (B) 3%	(C) 1%	(D) 97%
	3.	Tapeworm is primary (A) octopus	parasite of (B) pig	(C) cattle	(D) man
	4.	Rickets is caused by the (A) vitamin D	ne deficiency of (B) vitamin C	(C) vitamin A	(D) vitamin B .
	5.	The negative physiolo (A) regeneration	gical changes in our body (B) abnormalities	are called (C) degeneration	(D) aging
	6.	The inexhaustable reso (A) coal energy	ource of energy on earth i (B) solar energy	(C) fossil fuel	(D) natural gas energy
	7.	Archeobacteria tolerat (A) 100 °C	te temperature about (B) 120 °C	(C) 80 °C	(D) 40 °C
	8.	The homologus chron (A) Prophase – I	nosomes get separated dur (B) Anaphase – I	(C) Telophase – I	(D) Metaphase – I
	9.	MODY starts before (A) 50 years	(B) 30 years	(C) 40 years	(D) 25 years
	10.	Sarcoplasmic Reticul (A) Lysosomes	um are devoid of (B) chloroplast	(C) peroxisomes	(D) Ribosomes
	11.	The effective drug for (A) Nicotine	Parkinson's disease is (B) AZT	(C) L.dopa	(D) GDNF
	12.	Apical dominance is (A) Auxins	caused by (B) gibberellins	(C) ethene	(D) cytokinins
	13.	Which one of the giv (A) UAA	en is non-sense codon? (B) UCC	(C) UCG	(D) UCU
	14.	The commonly used (A) EcoR1	restriction enzyme is (B) Bam H1	(C) pBR 322	(D) pSC 10
	15.	(A) Nephridia		ules (C) Contractile Vacuol	e (D) Flame Cells
	16.	Cystic Fibrosis patie (A) Chloride Ions	nts lack gene that code fo (B) Carbonate Ions	r transmembrane carrier of (C) Bromide Ions	(D) Sulphate Ions
	17.	Which one is Parther (A) Mango	nogenic fruit? (B) Pineapple	(C) Peach	(D) Apple
				(7)	20-(IV)- 1 st A 424-24000

Intermediate Part-II, Class 12th (1stA 424) Paper: II Group - II LOGY Marks: 68 SUBJECTIVE me: 2:40 Hours 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. Account one each main adaptation in plants to high and low temperatures. i. Why does filtration takes place only at glomeruli part of Nephron and nowhere else? ii. Mention two metabolic altered states that generally (70%) cause kidney stone formation. iii. What are unguligrades? Give example. iv. Name the unpaired bones of Cranium. ٧. What is pulvinus? Write down its role in turgor movements. vi. vii. Define Haploid parthenogenesis. Give example. Name disease caused by Treponema pullidum. Also write down its two symptoms. viii. Define soil. Mention its one role and one problem. ix. What are Plankton? Give their two types. X. What is Limnetic zone? Mention its life. xi. What is meant by Hydroelectric power? Write down its advantages. xii. 3. Write short answers to any EIGHT questions. Is it possible to eliminate biorhythms in an organism? i. Describe exocrine and endocrine functions of pancreas. ii. What happens when dopamine production is stopped in brain? iii. Why AB blood group is universal recepient? iv. What is pleiotropy? Give one example. ٧. What is vortex mixing technique? vi. What is testicular feminization syndrome? vii. How familial hypercholesterolemia is treated using gene therapy viii. Why plasmids are naturally present in bacteria? ix. Compare ecology with autecology. X. What is the role of bacteria in leguminous plants? xi. Describe the importance of food chain in an ecosystem. xii. $(2 \times 6 = 12)$ 4. Write short answers to any SIX questions. How is primitive streak formed? i. What do you know about intercalary meristem? ii. Name and draw the (P-O-C) bond responsible for the stability of Nucleic Acid molecule. iii. What was the effect of x-rays on Neurospora spores in Beadle and Tatum experiment? iv. What changes occur in a cell during apoptosis? v. Why does DNA thread coils every 200 nucleotides around histone protein molecules? vi. What are functions of mitotic apparatus? vii. State theory of special creation. viii. What do you know about fixed alleles? ix. SECTION - II 5. (a) Explain through a diagram the thermostat function of hypothalamus and feedback mechanism in (4) human thermoregulation. (4)Explain the Necrosis and Apoptosis in development and growth. Describe sliding filament model. What does it explain? 6. (a) What do you know about grazing? (b) Describe nervous disorders. 7. (a) What ideas support the inheritance of acquired characters? 8. (a) Write a note on reproduction system of human female. (b) Define and explain law of independent assortment. 9. (a) What does embryonic induction mean? Write down the experiments of Spemann and Mangold to (4) demonstrate the phenomenon. What are restrictions endonucleases? Elaborate their importance for bacteria and Recombinant DNA

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technology?