Time: 20 Minutes

***	Roll No

HSSC-(P-I)-A/2024 (For All Sessions)

(Group-II)

Marks: 17

Biology (Objective)

Note: Write Answers to the Questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with Marker or Pen ink on the answer sheet provided.

HISWC		orisider correct, in the c	on copenant gene	- the farm of				
1.1	Rese	rve food material in c				2	(D)	Glycogen
	(A)	Starch	(B)	Proteins	(C)	Sucrose	(D)	Glycogen
2.	Malar	ria spreads by :						_
	(A)	Plasmodium	(B) Femal	e anopheles mosq	uito (C)	Tsetse fly	(D)	Trypanosoma
3.	Which of the following is unicellular but not included in protoctista?							
	(A)	Kelps	(B)	Volvox	(C)	Yeast	(D)	Plasmodium
١.	Most powerful Alkaloids are obtained from plants of family called:							
	(A)	Solanaceae	(B)	Fabaceae	(C)	Rosaceae	(D)	Poaceae
5.	Spher	nodon is found in:			1	1 1	1	
	(A)	Australia	(B)	Texas	(C)	New Zealand	(D)	Pakistan
3.	Syrinx is an organ of voice present in:							
	(A)	Apes	(B)	Parrots.	(C)	Snakes	(D)	Frogs
7.	Trans	sfer of energy from an	tenna complex	to reaction center	of Photosys	tem occurs by pheno	menon ca	lled:
	(A)	Oxidation	(B) /	Reduction		Resonance	(D)	Hydrogenation
8.		many number of elec	trons would be r	needed at a time to	reduce two	moles of NADP+?	. 10	
	(A)	Two	(B)	One	(C)	Three	(D)	Four
9.	Constipation is called by the excessive absorption of:							
	(A)	//co2	(B)	Water	(C)/	Food.	(D)	Oxygen
10.	If plas	sma proteins carry ab	out 5% CO ₂ / 1	00 ml of blood. Ho	w much CO	2 is carried by 500 m	ni of blood	from tissue fluid to lungs?
	(A)	5 ml	(B)	20 ml	(C)	25 ml	(D)	100 ml
11.	Which layer of arteries become thick due to Atheroma?							
	(A)	Middle	(B)	Inner most	(C)	External	(D)	Any layer
12.			cell is - 400 K	Pa and pressure p	otential (ψ _P) is 800 KPa. What	would be t	he solute potential (ψ_s)
	of cel	Il at equilibrium:	V 198			-1200 KPa	(D)	800 KPa
	(A)	1200 KPa	(B)	-400 KPa	(C)	-1200 Ni a	(0)	
13.	Which	h of the following eler		metal?		0	(D)	Chromium
	(A)	Zinc	(B)	Iron	(C)	Copper	(D)	
14.	One strand of DNA contains ACGT nitrogenous bases and opposite strand has TGCA. How many number of hydrogen bonds would be present between these complementary nitrogenous bases?							
	(A)	o be present between 08	(B)	12	(C)	10	(D)	14
15.		of reaction (catalysis) is inversely pro	portional to the:				
10.	(A)	Activation energy		me concentration	(C)	Optimum tempera	ature	(D) Optimum pH
16.		ular lens is of 10X and			on of comp	ound microscope wo	uld be	of human naked eye.
10.	(A)	100X	(B)	400X	(C)	500X	(D)	250,000X
17		h of the following is a						.46
17.				Mitochorndria	(C)	Centrioles	(D)	Lysosomes
	(A)	Ribosomes	(B)		(C)	D		
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Roll No		HSSC-(P-I)-A/2024	Marks: 68					
		(For All Sessions)	Time: 2:40 Hours					
Biology (Subjective)		(GROUP-II)						
	,	SECTION-I PWF	22-24					
•	Write chart answers of any 6		(8x2=16)					
2. :	the state of the s							
i. ii.	What are inhibitors? Write their two types. iii. Differentiate between apoenzyme & holoenzyme.							
iv.	The law and high temperature respectively affect an enzyme activity. How?							
٧.	What is asperollosis? Name the rungus will causes it.							
vii.	Enlist four examples of sponges with their habitat.							
vii.	Define polymorphism. What is the generic name of 'Portuguese man of war'?							
ix.	t and alarma of mammalia							
х.	Night is Note heard? State its function xi. Differentiate between catabolism and anabolism.							
xii.	Which form of anaerobic respiration	occurs in muscle cells of human during sprin	nting? Also represent it by equation.					
3.	Write short answers of any	eight parts from the following:	(8x2=16)					
i.	How does Phyletic Lineage extend b	ack to the common origin of all early life?						
ü.	Write down attributes of population.							
iii.	How cell cytoplasm play role in c	ell physiology?	The same of the sa					
iv.	of hostorial (Drokanyote) cell wall?							
٧.	If any differentiate fundus like protists and fundi?							
vi.	1 0 0) with a lark man							
vii.	the inverse of and macronicle in citates?							
viii.	/ La Alaca as well as in Protozog?							
ix.	How does temperature affect the oxygen carrying capacity of Haemoglobin?							
х.	How does the skin of earthworm	is kept moist for the exchange of respi	ratory gases?					
xi.	Differentiate Antigen and Antiboo	dy.	-					
xii.	What is the difference between s	single circuit and double circuit Heart?						
4.		nate from the following:	(6x2=12)					
i.	What are the pocks? Give their	ause. ii. Write the difference betw	een archaeo bacteria & eubacteria?					
iii.	Differentiate the Archegonia and	Antheridia. iv. What is circinate	vernation? Give an example.					
٧.	What do you know about annulu	s and stomium? vi. How can adip	ose tissue is formed?					
vii.	Which plants are called superma		r pangs? When do they begin?					
ix.	Why humans develop intestinal	gas from consuming milk products?						
17.1	, , , , , , , , , , , , , , , , , , , ,	SECTION-II	(0.0.04)					
Note	Attempt any three questions. Each	h question carries equal marks:	(8x3=24)					
5. (a)	What is an organ? Discuss orga	n and organ system level of organization	on. (2+2=4)					
(b)	How CO_2 is transported from tis	sues to lungs?	(4)					
6. (a)	What is RNA? Describe its three	e types. (b) Give economic l	osses due to fungi. (1+3=4) & (4)					
7. (a)	What are plastids? Give three type	es & explain chloroplast in detail and drav	v its labeled diagram. (1/2+1/2+2+1=4)					
(b)		er in digestion in human beings.	(2.2)					
8. (a)	Write detailed note on AIDS.		(4)					
(b)	Discuss symptoms and reasons	of Leucaemia and thalassaemia.	·* (2+2=4)					
(~/			(4)					

(b) What is photophosphorylation? Discuss non-cyclic photophosphorylation in plants.

9. (a) Discuss nutrition in bacteria.

(4)

(1+3=4)