☆	Roll No

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

Paper Code	6	4	6	1

Biology (Objective)

(Group-I)

Time: 20 Minutes

Marks: 17

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.

1.1	The mo	st recent era is:	,	•		RWP-	1-24	1
	(A)	Paleozoic	(B)	Mesozoic	(C)	Cenozoic	(D)	Proterozoic
2.	, ,	accharides which are	rare in natur	e and occur in some	e bacteria	are:		
	(A)	Hexoses	(B)	Pentoses	(C)	Trioses	(D)	Tetroses
3.		vated enzyme with a	polypeptide	chain and a co-facto	r is:	g. not con	Company of the Control of the Contro	
	(A)	Apaenzyme	(B)	Holoenzyme	(C)	Coenzyme	(D)	Activator
4.		of the following are in	volved in the	breakdown of old o	rganelles	:		£
	(A)	Lysosomes	(B)	Glyoxisomes	(C)	Peroxisomes	(D)	Ribosomes
5.		ongs to group of viru	ses called:		1			
	(A)	DNA virus	. (B)	Pox virus	(C)	Retro virus	(D)	Bacteriophage
6.	If the w	hole cell of bacteria is	s covered by	flagella, the bacteria	a is called	d: \	1. W. T.	
	(A)	Atrichous	(B)	Peritrichous	(C)	Amphitrichous	(D)	Lophotrichous
7.		ctor of "African sleepi		is:	Ų.	11		We class
	(A)	Mosquito	(B) /	House fly	(C)	Yellow fly	(D)	Tsetse fly
8.		oup of fungi in which		duction is not observ	red:			
	(A)	Ascomycota	(B)	Basidiomycota	(C)	Deuteromycota	(D)	Zygomycota
9.		zome in Adiantum is	protected by	: '	1	5		
	(A)	Ramenta	(B)	Stipe	(C)	Fronds	(D)	Stomium
10.	Excretory system in Arthropods is composed of:							*
	(A)	Flame cells	(B)	Malpighian tubules	(C)	Nephridia	(D)	Nephrons
11.	Which	of the following are no	ot included in	amniotes:			14	
	(A)	Birds	(B)	Reptiles	(C)	Mammals	(D)	Amphibians
12.	Dark re	action of photosynthe	esis occurs ir	the part of chloropl	ast name	ed as:	8	
	(A)	Stroma	(B)	Grana	(C)	Inter-grana	(D)	Inner membrane
13.		st action spectrum wa	s obtained b	y T.W.Engelman in	1883 wor	king on:		
	(A)	Volvox	(B)	Nostoc	(C)	Spirogyra	(D)	Chlorella
14.	In cockroach partly digested food is temporarily stored in:							
	(A)	Colon	(B)	Crop	(C)	Gizzard	(D)	Rectum
15.	Respiratory pigment present in muscles is called:							
	(A)	Haemoglobin	(B)	Haemocyanin	(C)	Haemoerthrin	(D)	Myoglobin
16.	The lef	t systematic arch disa	appears in:					
	(A)	Birds	(B)	Fish	(C)	Mammals	(D)	Reptiles
17.	The na	rrowing and hardenin	g of arteries	is called as:				
	(A)	Apoptosis	(B)	Necrosis	(C)	Atherosclerosis	(D)	Sclerosis
				82	9-11-A	•		

R

Roll No		HSSC-(P-I)-A/2024			Marks: 6	
110111		(For	All Sessi	ons)		
Bio	logy (Subjective)	(0	GROUP-	The second secon	Time: 2:40 Hour	
		SECTIO	N-I	RWP-1-24		
2.	Write short answers of any ei	ight parts from	the follo	wing:	(8x2=16)	
i.	What are terpenoids? Give two ex	amples.				
ii.	Draw diagrammatic representation	of an enzyme -	substrate	reaction (Lock and Key Model))	
iii.	How enzyme concentration affects	the rate of enzyr	me action			
iv.	What are inhibitors? Give their type	es. v.	Differentia	ate septate and non septate hy	phae .	
vi.	Compare obligate parasites with fa	acultative parasite	es.	And the second s		
vii.	Differentiate polyps and medusae.	viii.	How infes	tation is different from disinfes	stations?	
ix.	What do you know about pinworms	s? x.	Name the	scales of fish.		
xi.	The oxygen releases during photos	synthesis comes	from water	r, how you prove?	•	
xii.	What is the importance of phospho	orylation in energy	driving re	eactions?		
3.	Write short answers of any ei	ght parts from	the follo	wing:	(8x2=16)	
i.	What is biological method? Name i	its steps in order.	ii, W	hat is biological control? Give	an example.	
íii.	How outer membrane of mitochono	dria differs from in	ner mem	orane?	•	
iv.	Why peroxisomes are called so?	3. :	v. W	ite two characteristics of proto	zoa.	
vi.	Give at least two examples of Dino	flagellates. Which	h pigment	s are found in them?		
vii.	In which group, the giants of protist	t kingdom are inc	luded? Na	me any giant protist.		
viii.	Why pelomyxa palustris may be the	e most primitive o	of all euka	yote-like forms?		
ix.	How breathing is different from cell	ular respiration?				
Χ.	What changes occur in animal duri	ng diving reflex?				
xi.	What is brain haemorrhage? Give i	its preventive mea	asures.			
xii.	What is pericardium? Write its func	tion.		4		
4.	Write short answers of any six	x parts from the	e followi	ng:	(6x2=12)	
i.	How virion differs from prion?	O ii.	What ar	e plasmids? Give their role		
iii.	Give two important features of Lyco	psida. iv.	Differen	tiate over topping and plannati	on.	
٧.	What are paraphyses? Give their fu	unction. vi.	Compar	e homospory with heterospory	·.	
vii.	Give the role of secretion in digestion	on. viii.	How pe	osinogen is converted into pep	sin?	
ix.	Differentiate herbivores and carnivo	ores with example	9.			
		SECTION	1-11			
Note	Attempt any three questions. Each q	uestion carries eq	ual marks	:	(8x3=24)	
5. (a)	How diseases can be controlled? G	Sive preventive m	easures.		(2+2=4)	
(b)	Explain respiration in cockroach. Dr	raw its labeled dia	agram.		(2+2=4)	
6. (a)	Describe three main types of RNA.				(4)	
(b)	Discuss important features of ascor	mycota.			(4)	
7. (a)	What are plastids? Discuss their typ		i.		(1+1+2=4)	
	How digestion in Duodenum takes p			d pancreas.	(1+3=4)	
	Discuss the structure of a virion				(4)	
	Define immunity. Discuss its types.				(1+3=4)	
	Describe habitat, occurrence and re	production in No	stoc		(1+1+2=4)	
	Sketch various steps of Krebs' cycle				(2+2=4)	

30-11-A

K