H.S.S.C (Part-II) A/2024 (For All Sessions)

Paper Code 8 4 6 1

Biology (Objective)

Group - I

DIO.			DUR IN	,	20.0		
Time:20 Minutes			2WP-12	Marks: 1			
Note:	given. Which answer you consider correct fill the corresponding circle A,B,C or D in front of each						
1.1	The excretory product that requires minimum water	r for i	ts elimination as co				
	(A) Urea (B) Ammonia	(C)	Uric acid	(D)	Creatinin		
2.	Which of the following is bone of axial skeleton:						
	(A) Ribs (B) Shoulder girdle	(C)	Pelvis	(D)	Femur		
3.	Cardiac muscles are :						
	(A) Voluntary (B) Involuntary	(C)	Both (A) and (B)	(D)	None of these		
4.	Which one is not related to others is:		1 miles	يرواء خارو الملك المثالان	•		
	(A) Cretinism (B) Myxoedema (Č) Ex-	ophtha	almic goiter	(D)	Diabetes mellitus		
5.	Gastrin is the hormone produced by:		A management	ation conditions a	The same of the sa		
	(Å) Gut (B) Liver	(C)	Pancreas	(D)	Oral cavity		
6.	Reproduction is very important for the survival of:						
	(A) Species (B) Population	(C)	Individual	(D)	Both (A) and (B)		
7.	For maximum growth of plants, the optimum tempe	rature	is:	Company of the	r ^e		
	(A) 15 - 20 °C (B) 20 - 25 °C	(C)	25 - 30 °C	(D)	30 - 35 °C		
8.	Enzyme are responsible for assembly of:	1		_			
	(A) Nucleic acid (B) Protein	(C)	Carbohydrate	(Ď)	All (A),(B) and (C)		
9.	In Bacteria, the newly synthesized mRNA is release	ed in:	Carlot and the Carlot and Carlot				
	(A) Cytoplasm (B) Nucleus	(C)	Mitochondria	(D)	Chloroplast		
10.	In Klinefelter's syndrome:						
	(A) One x. chromosome is missing (B) Additional sex-chromosome is present (C) One pytosome is missing (D) None of these						
11.	When a haemophilic carrier women marries a norm		n, who among her o	ffsprii	ig may be affected:		
	(A) All her children (B) All her daughters	(C)			(D) Half of her sons		
12.	A team of Japanese scientists is attempting to introd	duce th					
	(A) Rice (B) Wheat	(Č)	Corn	(D)	Oat		
13.	It makes bacterial cell more permeable to take up re	ecomb					
	(A) Sodium chloride (B) Potassium chloride			ie i	(D) Cesium chloride		
14.	Who published an essay on "The principle of popul	lation"					
	(Å) Darwin (B) Lyell	(C)	Malthus	(D)	Mendel		
15.	Bacteria and Fungi are examples of:						
	(Å) Decomposer (B) Producer	(C)	Consumer	(D)	Grazer		
16.	The light in which zone is insufficient to support p	hotosy					
	(A) Littoral (B) Limnetic	(Ĉ)	Profundal	(D)	All of these		
17.	Total area of world under cultivation is:						
	(A) 9 % (B) 10 %	(C)	11 %	(D)	12 %		
	621.1	2-4	K				

Roll N	lo	Н.5	S.S.C. (Part-II) A / (For All Sessions)			
Bic	logy (Sub	iective)	Group - I			
Time	: 2:40 Hours	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RWP-1-)	11.	Marks: 68
	. 2		Section - I		/	
2	Muito about annu	war of any sight parts of the				[2x8=16]
2.		vers of any eight parts of the				[280-10]
(i)		ant leaves turns yellow in a		mm aratura?		
(ii)		tect their enzyme from dena	turation at high ter	iiperature?		
(iii)		phytes with xerophytes.	of ribs are called f	ree floating ribs?		
(iv)		of ribs, why only two pairs	of thos are called in	ice maning mos:		
(v)		al structure of cilium. n blood affects bones in gro	wing shildren?			
(vi)		tween chemotactic and chem		ato.		
(vii)		found outside seminiferous t			cells	
(viii)		productivity in profundal zo			cons.	
(ix) (x)		? Does this ecosystem exist:		system.		•
(xi)		of fossil fuels is related to				
(xii)		two impacts of ozone layer		in life.	•	E.
3.		vers of any eight parts of the			The same of the sa	[2x8=16]
(i)		respond to various stimuli u			N.	
(ii)		d frequency to initiate nerve		S. Commencer and the second se		
(iii)	What do you kno	ow about commercial applic	cations of Gibbere	llins? (at least two).		
(iv)		oup "O" considered universa			1 /	
(v)		ow about XX - XY mechani		nation?		
(vi)		rule. Give an example.		John W. C. Waller		
(vii)		ents are being treated by gen	ne therapy?			
(viii)		cal uses of DNA finger print		1 marie	,	9
(ix)		tion endonucleases? Give ex				
(x)		of food chain affect an eco				
(xi)	What is pyramid					
(iix)	Define Autecolo	gy. Give example.				
4.	Write short answ	ers of any six parts of the qu	estion.	A Part of the Control		[2x6=12]
(i)	The plant cell si	ze increase in number of ce	lls and flowering a	are affected by light. He	oŵ?	
(ii)	Differentiate bet	ween Gastrula and Neurula.		A 100 Mars		
(iii)	Compare the hor	mologous and analogous org	gans.			
(iv)		amino acid is brought at a		site? Give the role of e	nzyme also.	
(v)		utation? Write one example.			1.0	
(vi)		ral formulae of Adenine and				ži.
(vii)		s considered critical phase?				
(viii)	How cancer cells	s are different from normal of	cells?			
(ix)	Write any two po	oints of Lamarckism.				
		The state of the s	Section - II			

Note:		Attempt any three questions from the following:	(8x3=24)
5.	(a)	What is Renal failure? Describe its treatment.	[4]
	(b)	How does cytokinesis occur in animal cells? In which way does it differ from that in plant cell?	[4]
6.	(a)	Discuss genetic and hormonal causes about deformities of skeleton.	[2+2]
	(b)	Explain Nitrogen cycle with the help of its sketch?	[4]
7.	(a)	Which factors are involved in establishment of resting membrane potential? Explain.	[4]
	(b)	Define Hardy-Weinberg Theorem. How its equation in used to calculate allele & genotype frequency?	[4]
8.	(a)	Discuss sex determining pattern in grass hopper and birds.	[4]
	(b)	Describe female reproductive cycle in human.	[4]
9.	(a)	What is growth? Discuss its phases in plants.	[4]
	(b)	Write a note on transgenic animals.	[4]
	. /	622-12-A	

H.S.S.C (Part-II) A/2024 (For All Sessions)

Group - II

Time:20 Minutes

Biology (Objective) Note: Write answers to the questions on the objective answer sheet provided. Four possible answers are given. Which answer vou consider correct fill the corresponding circle A,B,C or D in front of each

1.1	qı	uestion with marker	or ink	on the answer sheet pro- neostatic thermostat in h	ovided	ρ_{1}	P-	2-24
	(A)	Thalamus	(B)	Hypothalamus	(C)	Cerebrum	(D)	Medulla
2.	Mos	t of cartilage consists	of:					
	(A)	Osteoclasts	(B)	Osteocytes	(C)	Chondrocytes	(D)	Cartilocytes
3.	Com	mercial cork is obtai	ned fr	om wood of:			40.00	The stage
	(A)	Quercus suber	(B)	Dalbergia sisso	(C)	Solanum nigrum	(D)	Cassia fistula
4.	Whic	ch hormone promotes	s flow	ering in pineapple?		e i		
	(A)	Auxins	(B)	Cytokinins	(C)	Ethene	(D)	Abscisic acid
5.	In an	unstimulated neuro	n, the	membrane potential is a	pproxi	/ ·		3
	(A)	+ 50 mV	(B)	- 50 mV	(C)	+ 70 mV	(D)	- 70 mV
6.	Prep	aration for Lactation	is stin	nulated by:		Α,	<i>!</i>	
	(A)	FSH	(B)	ICSH	(C)	LTH	(D)	TSH
7.	The	cavity formed between	en son	natic and splanchnic me	soderr	n is called:		The same and the same and
	(A)	Archenteron	(B)	Coelom	(C)	Neurocoel	(D)	Blastocoel
8.	In eu	karyotic cells, RNA	polyn	ierase - II makes:		60	11	
	(A)	m-RNA	(B)	r-RNA	(C)	t-RNA	(D)	c-DNA
9.	A ty	oical chromosome m	ay cor	ntain nucleotide				
	(A)	4 Billion	(B)	140 Billion	(C)	100 Million	(D)	140 Million
10.	Duri	ng cell cycle, chromo	osoma	l contents are doubled in	n:			
	(A)	G ₁ . phase	(B)	G _o phase	(C)	S-phase	(D)	G ₂ -phase
11.	Secre	eter gene "SE" is loca	ated or	n chromosome No:	e de la companya de l			
	(A)	11	(B)	19	(C)	21	(D)	23
12.	Bact	eria naturally contain	restri	ction endonucleases for	their	protection against:		
	(A)	Antibiotics	(B)	Heavy metals	(C)	Viruses	(D)	Other bacteria
13.	In Sa	inger's method dideo	xyribo	onucleoside triphosphate	e is use			
	(A)	RNA	(B)	DNA	(C)	Protein	(D)	Lipids
14.	Whi	ch scientist proposed	endos	symbiont hypothesis?				
	(A)	Margulis	(B)	Cuvier	(C)	Darwin	(D)	Malthus
15.	Bac	teria present in root r	odule	es fix nitrogen and conve	ert into			
	(A)	Nitrites	(B)	Nitrates	(C)	Amino acids	(D)	Ammonia
16.	The	productivity in tropic	al gra	sslands is more than:				
	(A)	$1500 g/m^2$	(B)	$2000 \ g/m^2$	(C)	$3000 \ g/m^2$	(D)	$4000 g/m^2$
17.	Estal	blishment of forests v	where	no forest existed previo	usly is			
	(A)	Deforestation	(B)	Afforestation	(C)	Reforestation	O(D)	Forestation

623-12-A

www.taleem360.com