1222		ning:- 1 Part – 1		not write anythi (Session 20						our Roll No. No	
	•	(Object	,	Paper (II)	J10-20	/ W 2020-	•			lent	
		,	20 minute		ED (CODE		ig. or ,			
. 11	me All	wwea:- 2	o minute	s PAF	ER	CODE	4465	-22	M	aximum Marks	:- 1
Note:-	You ha	ave four cl	oices for ea	ich objective type que	estion a	s A, B, C a	and D. The	choice v	vhich	you think is corre	ct: fi
that circ	ele in fr	ont of that	question n	umber. Use marker	or pen t	to fill the c	ircles. Cutti	ng or fi	lling	two or more circle	s wi
result in	zero m	ark in that	question. V	Vrite PAPER CODE	, which	is printed	on this qu	estion p	aper,	on the both sides	of th
			obies accord ot allowed.	lingly, otherwise the	student	will be res	ponsible for	the situ	ation.	. Use of Ink Remo	ver c
Q.1	, rooting	5 Hulu IS II	ot allowed.								
-	Aqua	tic envir	onment ca	n be classified as							
	_	resh wat		(B) Marine wate	r .	(C) Ter	restrial		(D)	Both A and B	
2.	. ,		stem have			(0) 101			(1)	Both 11 ting B	
		aribou		(B) Arctic foxes		(C) Bo	th A and I	3	(D)	Bison herds	
3.			uctural an	d functional relati					cret	ery system in	
		lanarian		(B) Earthworm	Oxionit.		ckroach	dire of		All A,B and C	
4	· / ·		nd Non-C	onducting Wood i	s calle	` ,	OKIOGOII		(D)	An A,D and C	
••		apwood		(B) Heartwood			th A and F	2	(D)	None of these	
5				k against each oth				,	(D)	None of these	
٥.				(B) Antiparalel r					(D)	Both A and C	
6				ms respond to cha			iagomsne		(D)	Both A and C	
0.			ir organs.				rious chan	aicala	m	All A,B and C	
7	, ,	-		vel onset the birth		(C) Val	nous chen	licais	(D)	All A,b allu C	
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0.			-	changes in our bo	1y 18 C	The second second			(D)	A 1	
	(A) C	erontolo	gy	(B) Aging	St , C	(C) Re	generation	L	(D)	Abnormal	
0	Υ	. 41.		-1 1	11		A			Development	
9.				als are borne with					(D)		
10		ficrocepl		(B) Megacephal		(C) Sci			(D)	Tetanus	
				piomolecules of a	n organ			У	(D)	D2.11	
	. ,	formones		(B) Enzymes		(C) DN				RNA	
	_			riole takes place d	uring		•	ent in t			
	` '	entrome		(B) Centrum		` '	ntrosome			Cytosome	
				tion reaches to its	maxir		~				
		ygotene		(B) Pachytene		(C) Dip	olotene		(D)	Diakinesis	
			d recessiv								
	(A) D	own's S	yndrome	(B) Testicular		(C) Tur	ner's Syn	drome	(D)	All A,B and C	
				Feminization	l						
				Syndrome							
14.	PCR A	Amplific		analysis can be us		_					
	. ,	iral infec		(B) Genetic Diso		` /			(D)	All A,B and C	
15.	In Plan	nt cells, 1	here is fu	Il genetic potentia	l of the	e organisi	m, hence o	called			
	(A) To	otipotent		(B) Impotent		(C) Me	ristems		(D)	Both A and C	
16.	Galapa	agos isla	nds were	nhabited by	of	Finches					
		types		(B) 13 types		(C) 30 t	ypes		(D)	40 types	
17.	A nich	e is defi	ned as the	role of a species	hat pla					-	
				(B) Influence						None of these	

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Warning:- Please, do not write anything on this question paper except your Roll No. (Session 2018-20 to 2020-22) 1222(Inter Part-II) Paper (II) Biology (Subjective) Maximum Marks: 68 Time Allowed: 2.40 hours Section -540-22 $8 \times 2 = 16$ Answer briefly any Eight parts from the followings:-2. Enlist any four nitrogenous wastes produced as a What different adaptations have been made by (ii) (i) result of purine and pyrimidine metabolism. xerophytes to limit water loss? Define Collenchyma cells. (iii) Differentiate between ammonotelic and (iv) uricotelic animals. Give examples. Write down any four functions of skeletal system. (vi) Differentiate between sapwood and heartwood. What is diploid parthenogenesis? (vii) Interpret the effect of photoperiodism as (viii) studied by Garner and Allard. Outline animal life of temperate deciduous forests Write a note on productivity of aquatic ecosystem (\mathbf{x}) (ix) (xi) Write a note on water as a renewable resource. How wild life plays an important role in food chain. (xii) $8 \times 2 = 16$ Answer briefly any Eight parts from the followings:-3. Write functions of Gastrin. From Where it is Justify that sympathetic system is associated (ii) (i) secreted? with fight or flight. Why blood pressure is a multifactorial trait? (iii) Interpret habituation with the help of an example (iv) What are pseudoautosomal genes? Give an example What is Gene linkage and Linkage group? (vi) (v) How foreign genes can be introduced into (vii) Who and when developed the PCR? Why it (viii) plant embryos or protoplasts? is named so? Differentiate between Secondary and Write about vortex mixing method to insert (x) (ix) Tertiary Consumers. genes into the eggs of animals. Elaborate symbiosis with an example. Differentiate between Hydrosere and Xerosere. (xii) (xi) $6 \times 2 = 12$ Answer briefly any Six parts from the followings: 4. Differentiate between growth and development. How neural plate is formed during chick development. (ii) (i) Which codons are called stop codons and why? (iii) Compare Heterochromatin with Euchromatin. (iv) What are the functions of Mitotic apparatus. (vi) How many binding sites are found in (v) promotor of prokaryotes and Eukaryotes. (viii) Define Neo-Darwanism. How can you identify the cancer cells? (vii) How artificial Selection is different from Natural selection. Section ----- II $(8 \times 3 = 24)$ Note: Attempt any three questions. 5. (a) Discuss the osmoregulatory strategies in the animals of terrestrial environment. Write a note on food chain and food web. 6. (a) Explain in detail the significance of Hydrostatic skeleton in animals having no hard parts such as bones. (b) Write a note on Transcription along with a neat diagram. 7. (a) How does diffused type of nervous system differ from central nervous system. List the differences by taking example of one animal with diffused nervous system and other with central nervous system. (b) Explain the population explosion, its control, consequences and causes. 8. (a) What are sexually transmitted Diseases? Explain. (b) Discuss pattern of Sex-determination in Animals? 9. (a) Explain role of nucleus in development by giving example of Acetabularia. Describe the details of engulfment of Aerobic bacteria and cyanobacteria by a prokaryotic **(b)** cell to develop a Eukaryotic cell?

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