223	(Inte	r Part – II)	(Session 201	9-21 to 2021-23)	Roll N	<u>ur Roll No</u> . No	
B	iology	(Objective)	Paper (II)			f Student	
T	ime Al	llowed:- 20 min	nutes PAPE	R CODE 44		ximum Marks:- 17	
Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed. Q.1 Which is not a Poikilotherm?							
1.		invertebrates	(B) Reptiles	(C) Amphi	ibiona (D)	D!1.	
2.			th connects two bones is	(C) Amphi	Dians (D)	Birds	
~.		Ligament	(B) Muscle	(C) Tendo	n (D)	Connective Tissue	
3.			orae of pelvic region for		(D)	Connective Tissue	
		Sacrum	(B) Coccyx	(C) Pelvis	(D)	Pubis	
4.	. ,		on have long axon?	(0) 101113	(D)	1 4013	
	(A) Sensory Neuron (B) Motor Neuron (C) Associative Neuron (D) Intermediate Neuron						
5.			enstrual cycle except	(0) 1100000	(D)	intermediate Neuron	
		Menstruation	(B) Secretory phase	e (C) Prolifer	ative phase (D) F	Pertilization	
6.	(A) Menstruation (B) Secretory phase (C) Proliferative phase (D) Fertilization 6. In the zone of elongation, the volume of the cells increases up to =						
		00 times	(B) 150 times	(C) 200 tim		250 times	
						250 times	
7.	7. Which neurotransmitter secreted at synapse outside the central nervous system:						
	(A) D	opamine	(B) Adrenaline	(C) Serotonia	(T)\ A =	etylcholine	
8.	Which	n of the following	ngs is required for joinin	g okazaki fragme	ats during DNA P.	enlication?	
	8. Which of the followings is required for joining okazaki fragments during DNA Replication? (A) DNA polymerase-I (B) DNA Ligase (C) DNA polymerase-III (D) RNA polymerase						
9.	Contra	action of spindle	es occur during:		(D) KI	NA polymerase	
	(A) Pi	rophase	(B) Metaphase	(C) Anaphase	(D) T ₋	11	
10.	Antico	odons are preser	nt on =	(C) Anaphase	(D) le	lophase	
	(A) tR	NA	(B) mRNA	(C) rRNA	(D) D)	T A	
11.	Interac	ction between g	enes occupying differen	Loci is:	(D) DN	NA	
	(A) Do	ominance	(B) Pleiotropy		(75)		
12.	pSC 1	01 has antibioti	c resistant gene for	(C) Gene link	age (D) Epi	stasis	
	(A) A1	mpicillin	(B) Streptomycin	(C) T-+1			
			osis die due to numerous	(C) Tetracycli	ne (D) Per	nicillin	
	(A) Re	espiratory tract	(B) Digestive tract				
14.	Endosy	ymbiont Hypotl	nesis explains origin of	(C) Excretory	tract (D) Re	productive tract	
	(A) Ba	cteria	(B) Prokaryotes	(0) 4			
			thin on acceptations and leave	(C) Armadillo	(D) Euk	caryotes	
	15. All the populations within an ecosystem are known as (A) Species (B) Food Web (C) Community (D) Eukaryotes						
						neers	
16. Coniferous forest located at high latitude are called (A) Boreal (B) Alpine (C) Community (D) Proneers (D) Proneers							
			(B) Alpine	(C) Taiga	(D) Pra	iries	
1/.	(A) II	cinie in tnickne	ss of ozone layer is caus	ed by increasing le	evel of		
	(A) Hy	drocarbons	(B) Nitrocarbons	(C) Chlorofluo	procarbons (D)	Nitrogen ovide	

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no not write anything on this question paper except your Roll No. (Session 2019-21 to 2021-23) 43 (Inter Part-II) Paper (II) Biology (Subjective) (Group I) Maximum Marks: 68 Section ----- I Time Allowed: 2.40 hours $8 \times 2 = 16$ Answer briefly any Eight parts from the followings:-2. Differentiate b/w Osmoconformers and (ii) What are the adaptations of xerophytes for (i) osmoregulators? Osmoregulation? Differentiate b/w collenchyma and What is the role of ADH and aldosteron in (iv) (iii) sclerenchyma. Osmoregulation? What is the effect of exercise on Muscle? Write the name of Bones of Cranium. (vi) (v) What is the role of corticosteroid in birth process? (viii) How is a seed formed? Compare the rain fall in Temperate decidous What are the adaptations in plants and (x) (ix) forests and Grassland ecosystem. animals for terrestrial ecosystem? What is the role of soil for plants and animals? How we can save energy? (xii) (xi) $8 \times 2 = 16$ Answer briefly any Eight parts from the followings:-3. Why is Pituitary anterior lobe referred to as Differentiate homozygous and heterozygous (ii) (i) Master gland? conditions. What is sympathetic Nerve system? Define Habituation in terms of animal behaviour. (iv) (iii) If recombination frequency is 20% then (vi) Define Pleiotropy. Give one example. (v) draw a gene map. (linkage map). Give an application of Transgenic bacteria. (vii) How is genomic library made? (viii) Define Autecology. How did scientists produce a salt-tolerant plant? (x) (ix) Differentiate Macronutrients and How do root nodular bacteria give and take (xii) (xi) Micronutrients benefits during symbiotic association? $6 \times 2 = 12$ 4. Answer briefly any Six parts from the followings:-Lateral buds in plants can be released from (i) What are teratogens? Give examples. (ii) the effect of Apical bud. Comment on it. (iii) Discuss the bondings which hold together How two strands of DNA get synthesized (iv) during DNA replication? two strands of DNA in double helix. What is Metastasis? How RNA polymerase form Transcription (v) (vi) bubble on a gene? Discuss it. Distinguish Apoptosis from Necrosis. What are vestigical organs? Give examples. Define Endosymbiont hypothesis. (ix) Section ----- II Note: Attempt any three questions. $(8 \times 3 = 24)$ 5. (a) Draw Labelled diagram of vertebrate Nephron. State the function of each part. (b) Define mitosis, only explain its importance. Highlight the types of directional responses in plants which are caused due to external stimuli. 6. (a) (b) Define Xerosere. Describe the stages of Xerosere 7. (a) Explain how reflex action prevent body damage during emergency? (b) Define endangered species. Discuss causes of extinction and conservation plan. 8. (a) What is Diabetes mellitus? Explain its genetic basis. Describe the human male reproductive system. 9. (a) Explain in detail the phenomenon of Growth Correlation with example. Write its commercial application. Explain the process of polymerase chain reaction with the help of diagram. (b) 1232 -- 1223 -- 7500