590-12-2-23 Warning:- Please, do not write anything on this question paper except your Roll No. 1223 (Inter Part - II) (Session 2019-21 to 2021-23) Roll No-Biology (Objective) (Group 2nd) Paper (II) Sig. of Student -----Time Allowed: - 20 minutes PAPER CODE 4462 Maximum 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 Fever causing substance is called. (A) Pyrogen (B) Pathogen (C) Poison (D) Pyrexia 2. Brain is protected by (B) Cranium (A) Skull (C) Orbit (D) Maxilla 3. Action of venus fly trap is: (A) Nyctinasty (B) Epinasty (C) Haptonasty (D) Hyponasty 4. Hormone that supresses ovulation is (B) Oestrogen (A) Progestrone (C) Gastrin (D) Testosterone 5. Fruit ripening is due to production of (A) Auxins (B) Cytokinins (C) Ethene (D) Gibberelins 6. Diploid parthenogenesis may occur in (A) Bees (B) Aphid (C) Wasp (D) Honey bee Acetabularia is unicellular: (A) Alga (B) Fungus (C) Yeast (D) Protozoa 8. Initiation codes for every protein coding gene is AUG which encodes for (D) Serine (C) Methionine (B) Alanine (A) Leucine 9. Histone proteins combine with DNA to form a complex. (D) Chromatid (C) Chromatin (B) Nucleosome (A) Kinetochore 10. The S-phase of cell cycle takes (D) 1.30 hours 4.5 hours (B) 9 hours (A) 10 hours · 11. ABO blood group was discovered in: (D) 1905 C) 1900 (B) 1901 (A) 1903 12. pSC 101 plasmid has antibiotic restriction gene for (D) Penecillin (C) Streptomycine (B) Ampiciline (A) Tetracycline 13. PCR technique was developed by (D) Hamilton (C) Kary B Mullis (B) Maxam 14. Who Published an essay on "The principle of population"? (A) Sanger (D) Lamark (C) Darwin (B) Mendle (A) Malthus 15. Lithosphere includes (D) Gases (C) Earth soil (B) Water 16. In grassland ecosystem tropical climates have woody trees called. (D) Prairies (C) Alpine (B) Savanna (A) Pampas 17. Which of the following act as environmental buffer? (D) Deserts (C) Lakes (B) Oceans

1231A - 1223 - 7500

(A) Forests

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			SAD-12-2-	23	(Desision 202)		
3 (Inter Part-II)			(Group 2nd)		Paper (II)		
Biology (Subjective)			(Grown)		Maximum Marks: 68		
Time Allowed: 2.40 hours							
		a Wiele	t parts from the follow	wings:-	$8 \times 2 = 16$		
2.	Ans	wer briefly any Eigh	parts from the road	ds and nucleic ac	ids.		
(i)	Wri	Write the metabolic waste products of amino acids and nucleic acids. Will the hydrogeness (iii) Give the role of Juxtamedullary nephrons.					
(ii)	Wh	What are neterometris: Give the					
(iv)	Dif	Differentiate between Healtwood and Superior					
(vi)	Wh						
(viii)	Cir	Give the effect of red light on internode growth and etiolation.					
(ix)	Dif	Differentiate between alpine and boreal forests. (x) What do you know about Pampas and Prairies:					
	0:-	Cinc the distribution percentage of water in different forms of the					
(xi)	OI.	Fight parts from the lonowings.					
3.		(1) TILLE true commercial applications of Austria					
(i)	W	What are biological Rhythms? (ii) Write two commercial applications of restriction. How is reflex action helpful in our daily life? (iv) Compare Gross and Net Primary Production. How is reflex action helpful in our daily life? (vi) What is product rule?					
(iii)	How is reflex action helpful in our daily life? (IV) Compare Greek and What is product rule?						
(v)	W	How is reflex action helpful in our daily life? (V) Compare (vi) What is product rule? What are compound Sex chromosomes? Write an example. (vi) What is product rule?					
(vii)							
	Why was test cross devised by Mendel? (VIII) white the Why was test cross devised by Mendel? (VIIII) white the Why was test cross devised by Mendel? (VIIII) white the Why was test cross devised by Mendel? (VIIII) white the Why was test cross devised by Mendel? (VIIII) white the Why was test cross devised by Mendel? (VIIII) white the Why was test cross devised by Mendel? (VIIII) white the Why was test cross devised by Mendel? (VIIIIII) white the Why was test cross devised by Mendel? (VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
	the real of enjoide gene in transgellic datteria. (As)						
(xii) W	The the significance					
4.	An	swer briefly any Six	parts from the followi	ngs:-	$6 \times 2 = 12$		
(i)	W	What role is played by gray-crescent in development?					
(ii)	Но	How gerentology is helping in increasing expected ages?					
(iii)	Wh	Why DNA replication is semi-conservative? (iv) What do you know about benign and malignant tumors?					
(v)	Wh	Why some portion of chromatin is condensed permanently and other remain condensed only during cell division?					
(vi)	Wh	What is genetic code and also give its asset to a set to be a set of the property and other remain condensed only during cell division?					
(viii)	Wh	What is genetic code and also give its properties? (vii) Differentiate between apoptosis and necrosis.					
the blogeography does provide evidence for evolution?							
Note: Attempt any three questions. Section $(8 \times 3 = 24)$							
5	(9)	Describe the present	ions.		$(8\times 3=24)$		
٥.	(b)	In what respect con	of concentration of exc	cretory products i	n Human Nephron.		
6.	(a)	Describe a Hinga Isi	cell death be regarded b	eneficial.			
	(b)	Describe flow of For	nt and explain how it is ergy in food chain of an	s moved by antage	onistic muscles?		
7.	(a)	Explain types and fur	nctions of hormones rel	ecosystem.	6.1.		
	(b)	Give detailed eviden	es of evolution from c	eased from corter	x of Adrenal gland.		
8.	(a)	Describe vernalization	on in plants by giving its	omparative anator	my.		
	(b)	Describe the inherita	nce of a trait in which t	he phenotype of a	heterozygote is intermediate		
		oct in pricitory pes	ui uie iwo nomozvaote	S hy giving one or	vonan la		
	(a)	Describe the impact of	of Nucleus on developm	ent by giving ev	omple of A t-1 . 1 .		
	(b)	How Severe Combine	ed Immunodeficiency s	vndrome (SCID)	children are treated		
(b) How Severe Combined Immunodeficiency syndrome (SCID) children are treated							