SINC

11 70 July 2011 Roll No.______A Annual 2019

Biology (New Scheme)
Paper: II

(INTER PART II CLASS 12th)(II) Objective

Time: 20 Minutes Marks: 17

Code: 8-163

		fi	Il that circle in front	of that quesi	ective type question as ion number with mark					
1.	1	A singl	e atom can	react with	ultraviolet rays and d	lestroy as in	chlorine	(D)	iodine	
		(A)	oxygen	(B)	fluorine	(C)	Ciliotine	(2)		
	2							(D)	savanna	
		(A)	grassland	(B)	woodland	(C)	tundra	(D)	34 (41111	
		Actual location of place where an organism lives is called its								
		(A)	ecosystem	(B)	habitat	(C)	niche	(D)	Dionic	
		Archaeobacteria tolerate temperature upto								
		(A)	60° <i>c</i>	(B)	90° c	(C)	120° <i>c</i>	(D)	150° c	
	5.	Antithrombin III is a biotechnological product produced in :								
		(A)	sheep	(B)	goat	(C)	mice	(D)	cow	
	6.	The blood serum containing antibodies is called;								
		(A)	lymph	(B)	plasma	(C)	antiserum	(D)	antigen	
	7.	During this phase the condensation of chromosomes reaches to its maximum:								
		(A)	leptotene	(B)	zygotene	(C)	pachytene	(D)	diakinesis	
	8.	Which of the following is a "start" codon?							110 A	
	о.	(A)	AUG	(B)	UAA	(C)	UAG	(D) UGA	UGA	
	9.	The particular array of chromosomes that an individual possesses is called:								
		(A)	kinesis	(B)	kinetosome	(C)	karyotype	(D)	kinetochore	
	10-	The cavity formed between somatic and splanchnic mesoderm is								
		(A)	archanteron	(B)	Hensen's node	(C)	neurocoel	(D)	coelom	
	11.	Reproduction is very important for the survival of								
		(A)	individual	(B)	population	(C)	species	(D)	community	
	12.	In hon	ey bee male sperm	is are produ	iced by	Annie aleman	Not then	(Structure of)	a parthenogene	eie
		(A)	meiosis	(B)	mitosis	(C)	abounted	D))) maintellogenesis	
	13.	The hormones which promote bolting of some rossete plants is known as;								
		(A)	auxins	(B)	gibberellins	(C)	cytokinin	(D)	ethene	
	14.	Which of the following is a bone of axial skeleton?								
		(A)	humerus		femur	(C)	rib	(D)	tibia	
	15.		of the following	is plantigra	de?			(D)		
		(A)	dog	(B)	horse	(C) rabbit	rabbit	(D)	monkey	
	16.	Excretory system of planaria is called:								
		(A) protonenhridium (B) metanephridium (C) malpighian tubules (D) leliai tubules								
	17.	The category of plants that has adaptations of small and thick leaves to limit water loss is								
		(A)	hydrophyte	(B)	xerophyte	(C)	mesophyte	(D)	nygropnyte	

Annual 2019 Roll No. Time : 2.40 Hours (INTER PART II - CLASS 12th) Marks: 68 Biology (New Scheme) **SUBJECTIVE** Paper: II Section I is compulsory. Attempt any 3 questions from Section II. (SECTION - I) Note:- $(8 \times 2 = 16)$ Write short answers to any Eight parts: Define the given terms: (i) Hypertonic environment (ii) hypotonic environment 2. Describe physiological adaptations of animals for thermoregulation. ii. Discuss the structure and functions of collenchyma cells in plants. iv. Name the bones of pectoral and pelvic girdle. V. What is CRAMP? vii. Describe various steps involved in Ex-vivo gene therapy. viii. Discuss any two benefits of transgenic bacteria to promote health of plants. ix. How did plants and animals adapt land habitat? x. How will you differentiate ALPINE and BOREAL forests? xi. Define Wild Life. xii. Give reasons for world population explosion. $(8 \times 2 = 16)$ Write short answers to any Eight parts: What is synapse? ii. Write two commercial applications of Ethene. iii. What is conditioning in learning behaviour? iv. Differentiate between phenotype and genotype. v. State the law of independent assortment. What is diabetes, name its types? vi. What are palindromic sequences? Write at least two methods to get a gene of interest. vii. viii. What is cell suspension culture? x. Differentiate between primary and secondary succession. xi. Define autecology and synecology. xii. What is commensalism? Give example. $(6 \times 2 = 12)$ Write short answers to any Six parts: Write the names of four types of cytoplasm contain in the fertilized egg of ascidian. ii. What is growth correlation? iii. Differentiate between primary and secondary growth. What is phenyleketonuria? Why mRNA is modified with cap and tail after its formation? v. Define cell cycle. Write its phases. Differentiate between benign and malignant tumor. vi. vii. What is the concept of inheritance of acquired characteristics? viii. ix. $(3\times8=24)$ Attempt any three (3) questions: Give the structure and function of Nephron in human kidneys. 4 Note:-4 Write a note on xerosere succession. (a) Explain the phenomenon of turgor movements in plants. 4 (b) Write down the Beadle and Tatum experiments on neurospora. 4 (a) 4 Give an account of innate behaviour. (b) 4 Write a note on Green House Effect. 7. (a) Describe menstrual cycle in human female. 4 (b) 4 Describe genetics of colour blindness. (a) Define teratology. Discuss various types of abnormalities in development. Define Hardy -Weinberg Theorem. Discuss the various factors affecting gene frequency. (b)

9.

(a)