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Inter (Part-II)-A-2022
(For all sessions)

Paper Code 8 4 6 7

Roll	No	(To be filled in by	candidate)

Biology	(Objective	Type)
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Time: 20 Minutes	*	Rup

Marks: 17

NOTE: Write answers to the questions on the objective answer sheet provided. Four possible answers A,B,C and D to circle A,B,C or D given in front of each each question are given. Which answer you consider correct, fill the corresponding question with Marker or pen ink on the answer sheet provided.

uca	tion with Marker of pen link on	are arrower errors provided				
.1.	The vernolic acid and ricinolic					
	(A) paints	(B) plastics	(C) Paints and plastics	(D) Rubber		
2.	Darwin's "Origin of species" v	vas published in:				
	(A) 1840	(B) 1859	(C) 1865	(D) 1890		
3.	Study of relationship of different	ent communities to environmen	nt is called:			
	(A) Synecology	(B) Autecology	(C) Embryology	(D) Zoology		
4.	Which one is not a desert?					
	(A) Thal	(B) Thar	(C) Sahara	(D) Taiga		
5.	The steady internal state of he	omeostasis is known as:				
	(A) Disorder	(B) Disease	(C) Normal health	(D) Abnormal health		
6.	Pressure filtration is associate	ed with the:				
	(A) Glomerular Part	. 69	(B) Collecting tubule			
	(C) Distal convulated tabule		(D) Collecting duct			
7.	The diameter of thick filament	in muscle is:				
	(A) 7-8 nm	(B) 4 nm	(C) 16 nm	(D) 10 nm		
8.	At the place of attachment of	leaf with the shoot a swollen p				
	(A) Pitch	(B) Pit	(C) Cortex	(D) Pulvinus		
9.	Intelligence is under the contr	ol of:	,	(3) 11 (11		
	(A) Cerebrum	(B) Cerebellum	(C) Thalamus	(D) Hypothalamus		
10.	Diploid parthenogenesis may	occur in:		(m) 11 D		
	(A) Bees	(B) Aphid	(C) Wasp	(D) Honey Bee		
11.	The hypoblast is mainly presumptive:					
	(A) Endoderm	(B) Epiderm	(C) Mesoder	(D) Blastoderm		
12.	It is one of the prominent structure in the chick embryo of 18 hours:					
	(A) Primitive streak		(B) Neurocoel	4		
	(C) Notochord	*	(D) Coelom			
13.	Initiation codes for every protein coding gene is AUG which encodes for:					
	(A) Leucine	(B) Serine	(C) Alanine	(D) Methionine		
14.	The term Bivalent means:			(B) 5 Observed		
	(A) One chromosome	(B) Two chromosomes	(C) Two chromatids	(D) Four Chromosomes		
15.	Mongolism is phenotypically:			(5) M		
	(A) Male	(B) Female	(C) Male or Female	(D) None		
16.	How many possible alleles of ABO blood group are present in an individual?					
	(A) 1	(B) 2	(C) 3	(D) 300		
17.	Dopamine praducing cells car		ler to curve:	(D) At the transit		
	(A) Haemophilia	(B) Epilepsy	(C) Parkinson's disease	(D) Alzheimer's		
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	Roll	(to	be fill	ed in b	y the	candidate)

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Biology (Essay Type)

explain.

B1010gy (Essay Type)		
Time: 2:40 Hours	Section - I Russam Mai	rks: 6
2. Write short answers of any eight parts from the fol	lowing.	2x8=1€
i. Why do marine fishes retain trimethylamine oxide in their body?	ii. Give the significance of tubular secretion in filterate.	
iii. How do aldosterone and ADH help in concentration of urine?	iv. Differentiate betweeen heart wood and sap wood:	•
	vi. Name the bones of pectoral girdle.	
v. What is Nutation?	viii. What is the cause and symptoms of Syphilis?	
vii. Give the role of foetus during the timing of delivery.	x. What is Taiga? Give conditions in Taiga.	
ix. Differentiate between climate and weather:	xii. What are the effects of global warming?	
xi. Define soil. Give its composition.		x8=16
3. Write short answers of any eight parts from the fol	lowing.	
i. Discuss the effect of age and emotions on epilepsy.	iv. What is Product Rule?	
iii. What type of behaviour is Kinesis?	vi. What is Rh-factor?	
v. Discuss Dominance relation. Give one example.	viii. What is cystic fibrosis?	
vii. What is Gene Pharming?	VIII. VVIIAL IS CYSUC IIDIOSIS:	
ix. Discuss importance of Tissue-culture.		
x. What are decomposers?		
xi. What is Food Chain?		
xii. What type of trophic level exists in Food Chain?	alade	2x6=1
4. Write short answers of any six parts from the follows:	Dania.	
i. How increase in length of plant body occurs? Discus		
ii. Can aging be slowed down in human? Comment or		
iii. Differentiate between Template and coding strands	v. Why DNA replication cannot complete without DNA He	alicase
iv. Give role of promoter in transcription.	10 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
vi. Distinguish Convergent Evolution from Divergent	vii. Differentiate between Endangered species and Extino	
Evolution.	species. Give examples.	
viii. Differentiate between Karyokinesis and	ix. What is crossing over? Give its significance.	
cytokin <mark>esis.</mark>	- stien TT	
	ection - II	
NOTE: Answer any three questions from the following	·9·	x3=24
5. (a) How osmoregulation takes place in terristrial en	vironment?	4
(b) Write a note on synecology and autecology.	•	4
6. (a) Demonstrate the antagonistic working of hinge jo	oint of elbow.	4
(b) Describe the process of transcription emphasizing	g initiation, elongation and termination steps. (Post	4
transcriptional modificatios are not required)	•	
7. (a) Describe the mechanism of synaptic transmissio		4
(b) How acid rain is produced? What are the causes	and effects of acid rain?	4
8. (a) Describe huaman menstrual cycle's primary step		4
(b) Write a note on Sex determination in plants		4
9. (a) Define regeneration with two examples. Discuss	the mechanism of regeneration in planaria and salamend	er: 4
(L) Do the anatomical similarities, between species	bring any evidence in the support of evolution? If yes,	4

(b) Do the anatomical similarities between species bring any evidence in the support of evolution? If yes,