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4.5	5.7	3.6	745

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

8 **Paper Code**

Roll No. (To be filled in by candidate)

Biology (Objective Type)

Rup-2

Marks: 17

Time: 20 Minutes 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

ques	tion with Marker or pen ink on	the answer sheet provided.			
1.1.	The vernolic acid and ricinolic	acid can be used as hardn	ess in:		
	(A) paints	(B) plastics	(C) Paints and plastics	(D) Rubber	
2.	Darwin's "Origin of species"	was published in:			
	(A) 1840	(B) 1859	(C) 1865	(D) 1890	
3.	Study of relationship of differ	ent communities to environn	nent 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 homeostasis is known as:				
	(A) Disorder	(B) Disease	(C) Normal health	(D) Abnormal health	
6.	Pressure filtration is associated with the:				
	(A) Glomerular Part		(B) Collecting tubule		
	(C) Distal convulated tabu	le .	(D) Collecting duct		
7.	The diameter of thick filamen	it 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 swolle			
	(A) Pitch	(B) Pit	(C) Cortex	(D) Pulvinus	
9.	Intelligence is under the cont	rol of:	P. Control of the Con		
	(A) Cerebrum	(B) Cerebellum	(C) Thalamus	(D) Hypothalamus	
10.	Diploid parthenogenesis may	occur in:			
	(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		
	(C) Notochord		(D) Coelom		
13.	Initiation codes for every prof	ein coding gene is AUG whi			
	(A) Leucine	(B) Serine	(C) Alanine	(D) Methionine	
14.	The term Bivalent means:			(E) E 01	
	(A) One chromosome	(B) Two chromosomes	(C) Two chromatids	(D) Four Chromosomes	
15.	Mongolism is phenotypically:				
	(A) Male	(B) Female	(C) Male or Female	(D) None	
	How many possible alleles of	ABO blood group are prese		(7.)	
	(A) 1	(B) 2	(C) 3	(D) 300	
17.	Dopamine praducing cells can be grafted in the brain in order to curve:				
	(A) Haemophilia	(B) Epilepsy	(C) Parkinson's disease	(D) Alzheimer's	

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Roll No	_(to be filled in b	y the candidate)

Biology (Essay Type)

explain.

	Section - I O O Marks	e: 6:		
111100 2010	Ruy-23	=16		
2. Write short answers of any eight parts from the fo	nowing.	•		
	ii. Give the significance of tubular secretion in filterate.			
their body?	. Diff - 11-1- between beat wood and can wood			
iii. How do aldosterone and ADH help in concentration of urine?	iv. Differentiate betweeen heart wood and sap wood:			
v. What is Nutation?	vi. Name the bones of pectoral girdle.			
vii. Give the role of foetus during the timing of delivery.	viii. What is the cause and symptoms of Syphilis?			
ix. Differentiate between climate and weather:	x. What is Taiga? Give conditions in Taiga.			
xi. Define soil. Give its composition.	xii. What are the effects of global warming?			
3. Write short answers of any eight parts from the fo	llowing. 2x8=	=16		
i. Discuss the effect of age and emotions on epilepsy.		?		
iii. What type of behaviour is Kinesis?	iv. What is Product Rule?			
v. Discuss Dominance relation. Give one example.	vi. What is Rh-factor?			
vii. What is Gene Pharming?	viii. What is cystic fibrosis?			
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?				
4. Write short answers of any six parts from the following	owing.	6=1		
i. How increase in length of plant body occurs? Discuss it.				
ii. Can aging be slowed down in human? Comment of				
iii. Differentiate between Template and coding strands				
iv. Give role of promoter in transcription.	v. Why DNA replication cannot complete without DNA Helica	ase		
vi. Distinguish Convergent Evolution from Divergent	vii. Differentiate between Endangered species and Extinct			
	species. Give examples.			
Evolution.	ix. What is crossing over? Give its significance.			
viii. Differentiate between Karyokinesis and	IA. Withat to discounty over the control of			
cytokinesis.	ection - II			
	00	=24		
NOTE: Answer any three questions from the following	ny.	4		
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 ju	oint of elbow.	4		
	ng initiation, elongation and termination steps. (Post	4		
transcriptional modificatios are not required)		4		
7. (a) Describe the mechanism of synaptic transmission		4		
(b) How acid rain is produced? What are the causes and effects of acid rain?				
8. (a) Describe huaman menstrual cycle's primary step	OS.	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 salamender:	4		
(L) De the englamical 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,