

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 5th Semester Examination, 2021-22

ANTACOR11T-ANTHROPOLOGY (CC11)

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate marks of question.

Candidates should answer in their own words and adhere to the word limit as practicable.

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1.		Answer any <i>two</i> questions from the following: (within 800-1000 words each)	$10 \times 2 = 20$
	(a)	What is Mutation? What is the role of Mutation as a dynamics of Evolutionary force?	2+8 = 10
	(b)	What do you mean by the Cytogenetic Method of Human genetics? How does the Cytogenetic method differ from Pedigree method of Study?	6+4 = 10
	(c)	Discuss Mendel's Laws of Inheritance. Explain the mode of inheritance of a X-linked recessive trait in man.	5+5 = 10
	(d)	What is Polygenic Inheritance? Discuss the principles of Polygenic Inheritance with a suitable example from humans.	2+8 = 10
2.		Answer any <i>two</i> questions from the following: (within 300-400 words each)	$5 \times 2 = 10$
	(a)	Differentiate between Autosomal dominant and Autosomal recessive traits.	
	(b)	Write a short note on any Multiple Allelic trait in human.	
	(c)	Differentiate between random and assortative mating patterns.	
	(d)	Write a short note on Hardy Weinberg Law of equilibrium.	
3.	(a)	Answer any <i>five</i> questions from the following: (within 30-50 words each) What is Phenocopy?	1×5 = 5
	(b)	What is Lethal gene?	
	(c)	What is Co-dominance?	
	(d)	What is Founder effect?	
	(e)	What is Migration?	
	(f)	What is Epistasis?	
	(g)	What is Y-linked inheritance?	

5001 Turn Over

(h) What is Punnett Square?

CBCS/B.Sc./Hons./5th Sem./ANTACOR11T/2021-22

١.		Ans	wer the following questions by choo	osing the right option:	$1 \times 5 = 5$		
	(a)	Polydactyly is					
		(i)	Autosomal trait	(ii) X-linked trait			
		(iii)	Polygenic trait	(iv) Y-linked trait			
	(b) The genotype ratio of a monohybrid cross is						
		(i)	1:2:1	(ii) 3:1			
		(iii)	2:1:1	(iv) 9:3:3:1			
	(c) The crossing of F_1 to either of the parents is known as						
		(i)	Test cross	(ii) Backcross			
		(iii)	F ₁ cross	(iv) All of these			
	(d)	d) Co-existence of Malaria and sickle cell trait is an example of					
		(i)	Multiple allelism	(ii) Balanced Polymorphism			
		(iii)	Genetic drift	(iv) None of these			
	(e)	(e) Which of the following Genotype cannot occur with O allele in Human ABO blood group?					
		(i)	AO	(ii) BO			
		(iii)	00	(iv) AB			

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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