QP-1782

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OCT_NOV_2024 WINTER EXAMINATION

Bachelor of Science

Sub. Name: ZOOLOGY - IV

Sub. Code: 72846/90227/90227/59685

		Date: DECEMBER ,05-12-2024 0:30 AM To 12:00 PM	Total Marks: 40
Inst	tructi	ions: 1. All questions are compulsory 2. Draw neat labelled diagrams wherever necessary 3. Figures to the right indicate full marks	
Q1)	Mu	ultiple Choice questions.	[8]
	i.	blood group is universal recipient	
		A. B	
		B. A	
		€. AB	
		D. O	
	ii.	The best example of incomplete dominance is	
		A. Sunflower	
		B. Rose	
		C. Lotus	
		D. Mirabilis Jalapa	
	iii.	One of the following is called Protenor type of sex determine	nation
		A. XX, XO	
		B. XX, XY	
		C. ZZ, ZO	
		D. ZZ, ZW	
	iv.	In supplementary interaction, the ratio obtained is	
		-A. 9:3:4	
		B. 9:7	
		C. 9:3:3:1·	
		D. 3:1	
	v.	Sickle cell anaemia is	
		A. Sex-linked inheritance	
		B. Autosomal heritable disease	
		C. Infectious disease	
		D. Deficiency disease	

Allele is.....

vi.

		A. Segment of gene	
		B. Form of gene	
		C. Special kind of gene	
		D. A mutant	
	vii.	Crossing over occurs between	
		A. Sister chromatids	
		B. Non-sister chromatids	
		C. Non-homologous chromosomes	
		D. None of the above	
	viii.	The term genetics was first coined byin 1905	
	VIII.	A. Karl Correns	
		.B. Gregor Mendel	
		C. T. H. Morgan	
		-D. William Bateson	
Q2)	Λ+	tempt any TWO	[16]
GZ,	A	A) Evolain the law of segregation with a suitable example	
		B) Give an account of multiple alleles with reference to ABO blood grou	p system
		in man.	
		C) What is Linkage? Describe the types of linkage with suitable example	es
Q3)	W	rite short note on any FOUR	[16]
		a. Co-dominance	
		b. Polyploidy	
		c. XX-XY sex determination	
		d. Duplication	
		e. Back cross	
		f. Genic balance theory	

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OCT_NOV_2024 WINTER EXAMINATION

Bachelor of Science Sub. Name: ZOOLOGY - III

Sub. Code: 72846/90227/90227/59685

Day Tim	Total Marks: 40		
		30 AM To 12:00 PM ons: 1. All questions are compulsory 2. Draw neat labelled diagrams wherever necessary 3. Figures to the right indicate full marks	
Q1)	Cho	cose the correct alternative from the following and rewrite the sentence	[8]
	i.	Larvae of mosquito feed on	
		A. Hair	
		B. Blood	
		C. Organic matter	
		D. Bone	
	ii.	Dengue fever is transmitted by	
		A. Mosquito	
		B. Flies	
		C. Caterpillar	
		D. All of these	
	iii.	Epidemic typhus is transmitted by	
		A. Human louse	
		B. Mites	
		C. Ticks	
		D. All of these	
	iv.	teeth of rat grows continuously throughout its life	
		A. Incisors	
		B. Molars	
		C. Premolars	
		D. Canines	
	٧.	is the structural and functional unit of the kidney.	
		A. Glomerulus	
		B. Malpighian body	
		Cr Nephron	
		D. Bowman's capsules	
	vi.	Right auriculo-ventricular aperture is guarded by	

		 A. Monocuspie 	d	
		B. Bicuspid		
		C. Tricuspid		
		D. Epiglottis		
	vii.	ar	re the store houses of sperms.	
		A. Epididymis		
		B. Seminiferou	us tubules	
		C. Vasa defere	entia	
		D. Seminal ves	sicles	
	viii. I	lenle's loop is	the part	
		A. Kidney	•	
		B. Testis		
		C. Digestive sy	ystem	
		D. None of the		
Q2)	Atten	pt any TWO of the	he following	
	a.	a. Explain the	respiratory tract and exchange of gases in lungs of Rat.	[16]
			e venous circulatory system of Rat.	[10]
			Myiasis with reference to its symptom and control measures.	
Q3)	Atten	pt any FOUR of	the following	[16]
	a.	a. Explain con	nposition of blood	
		b. Explain the	Nephron and its function	
		c. Explain the	female reproductive system of Rat	
		d. Write a note	e on control measures of Mosquito	
		e. Describe th	ne enzymes and their function involved in digestion of food in	1
		Rat		
		f. Explain the	control measures of fleas	