VCD/ 081022 SYBSc Zoology I SEM III 100 MARKS 3HRS

Note:	native demonstrating operations of the state of the contract of the state of the st		A titure autom to a ratio at	
All Questions a	re compulsory.			
Figures to the r	ight indicate full marks.			
Q.1. a) Fill in th				5 Marks
2. The observation Back 3. Hum 22, 4	ome, DNA, Allele) eross of F1 hybrid to one cross, Monohybrid cross nans have pair of 6 ording to the genic balance	of it, Diauto	s parents is called (hybrid cross) somes and 1 pair of sex chromosomeory, X/A=1.5 will make the	Fest cross, ome. (44, 23,
5. The	ridual (Male, No process of protein synthes scription)	leta sis is	or Super female, Intersex, None of scalled as (Replication	n, Translation,
b) Match the c	olumn		A ACCO	5 Marks
	unaffected female	a.	Termination Codon	
2. Recessiv	ve epistasis	b.	O (sure la	
3. Beard in men		C.	Initiation Codon	
4. AUG		d.	sex-limited character	
5. UAG		e.	9:3:4	
c) Write true 6 1. 2. 3. 4. 5.	Rh antigen was present Law of segregation of a Sex linked genetically in	llele nher	ne RBCs of Gorilla monkey. s can be proved using monohybric ited traits can appear in both male acteria. lved in unwinding of DNA during	is and temates
d) Write one s	sentence answer.			5 Marks
<i>′</i>	Who discovered human	bloo	d groups? nt in both male and female?	
3.	What role does the environmental factors play in determination of sex in animals like crocodile?			n of sex in
4.	Barr bodies are present i	n?		
5.	Which bacteria was sele	cted	by Griffith for the experiment?	
Q.2. Answer the following. (Any two)				20 Marks
1. Define	genetics and explain its so e incomplete dominance	cope	and importance.	

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- 3. What is epistasis? Give a detailed account of double dominant epistasis.
- 4. Explain the inheritance of multiple alleles with the help of a suitable example.

Q.3. A) Answer the following (Any one).

10 Marks

- 1. Describe and classify the structure of chromosomes?
- 2. Difference between Autosome & Allosome

B) Answer the following (Any one).

10 Marks

- 1. Explain the XX-XO mechanism of sex determination.
- 2. Explain sex limited genes with the help of an example.

Q.4. Answer the following (Any two).

20 Marks

- 1. Describe the process of transcription in eukaryotes.
- 2. Write properties of Genetic code.
- 3. Explain-Structure of DNA
- 4. Explain Process of translation in eukaryotes.

Q.5. Write short note. (Any four).

20 Marks

- 1. Classical concept of gene.
- 2. Intermediate lethal alleles
- 3. Test cross and backcross
- 4. Haplodiploidy
- 5. Barr bodies
- 6. Packaging of DNA
- 7. Structure of m RNA
- 8. Wobble Hypothesis