Reg.	No.	:	***************************************
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V Semester B.Sc. Degree (CCSS-Reg./Supple./Imp.) Examination, November 2014 CORE COURSE IN ZOOLOGY 5B08 ZLG(A): Human Genetics (Elective)

Time: 3 Hours Max. Weightage: 25

- Essay. Answer any one. Weightage 4.
 - What is human genome project? Explain the goals achieved in Human Genome Project.
 - Describe sex chromosomal abnormalities.

 $(1 \times 4 = 4)$

- II. Essay. Answer any one. Weightage 4.
 - What is pedigree analysis? Describe the symbols used in pedigree construction.
 - 4. Describe the structure and diversity of immunoglobulins.

 $(1 \times 4 = 4)$

- III. Short essay. Answer any four. Weightage 2 each.
 - 5. What is chromosome banding? Describe different banding techniques.
 - 6. Describe the chromosomal abnormalities associated with cancer.
 - 7. What is gene therapy? Explain ex-vivo and in-vivo gene therapy.
 - 8. Explain the genetic basis and inheritance of thalassemia.
 - 9. What is the difference between pharmacogenetics and ecogenetics?
 - Explain the various aspects discussed in London Conference.
 - 11. Give an account on proto oncogens.

 $(4 \times 2 = 8)$



IV. A	Answer any seven. Weightage 1	each.					
12	2. Explain briefly X-linked diseas	se.					
13	3. What is Eugenics?						
14	4. Write a short note on neurofib	Write a short note on neurofibromatosis.					
15	5. How can we identify a person	How can we identify a person with Klinefelters syndrome?					
16	What are autoimmune disorders?						
17	7. Explain the significance of DN	Explain the significance of DNA finger printing.					
18	8. What are tumour suppressor	genes?					
19	9. PCR.						
20	20. What metabolic defect causes	. What metabolic defect causes alkaptonuria ?					
21	21. What is R-banding? (7×1=7						
V. A	Answer the following. Weightage	1 each.					
22	22. a) Albinism is a						
	The second secon	designates monozygotic twins in pedigre	э.				
	c) ASD stands for	Whire in pudique princes "Desemble contaction					
	d) In HBS glutamic acid is rep	placed by					
23	23. Match the following:						
	a) Antibody	- Genetherapy					
	b) DNA amplification	 Down syndrome 					
	c) Trisomy 21	– B cells					
	d) Vectors	- PCR					
		 Edward syndrome 	$(2 \times 1 = 2)$				
		connecto massed early with effective					