

LIBRARY

V. Nag



Fifth Semester (T.Y.B.Sc), Zoology

US05CZOO23 (Genetics and Biotechnology)

Date:	25/11/.	Time: 3:00 to 5:00 p.m.	
Day: Thursday Mark			
Q-1	1	MULTIPLE CHOICE QUESTIONS 1. Purple flower in LathyrusOdoratus is due to a) Dominant epistatus b)Recessive epistatus c) Duplicate dominant genes d) Duplicate recessive genes	0
	2	In congenital icthyosis children at birth have a) crushed leathery skin b) droopy jaw c) raised eyes d) none of the above	
	3	Test cross in an independent assortment gives ratio. a) 1:1 b) 1:1:1:1 c) 1:2: 1 d) 3:1	
	4	a) monosomy b) trisomy c) tetrasomy d) none	
	5	Mutagenic agents are a) Radiation b) temperature c) chemical d) all	
	6	PCR technique was developed by a) Kary Mullis b) Bridges c) Stadler d) Stansfield	
	7	Primary culture are subcultured to give a) secondary culture b) cell lines c) finite cell lines d) continuous cell lines	
	8	The first organ culture was attempted by a) Loeb b) Arnold c) Harrison d) Carrel	
	9	Grid method is a type of culture. a) cell culture b) suspension culture c) organ culture d) none	
	10	The causative agents of cancer are a) physical b) chemical c) genetic and environmental factors d) all	
Q-2	1	FILL IN THE BLANKS / TRUE OR FALSE Thalassemia major is caused due to	3
	2	The petite mutants of yeast have a	
	3	The chromatin resulting from interchange of chromosomal parts are known as	
	4	Duplication takes place in	

	5	Polyploidy in human have been found in liver cells.	
	6	A heat stable DNA polymerase TAQ is isolated from Thermococcusaquaticus.	
	7	Electron microscope uses beams of electron	
	8	Animal cells with improved genome is called transgenic	
Q-3	1	ANSWER IN SHORT (ATTEMPT ANY TEN) Define allele.	20
	2	What is the difference between dominance and epistasis?	
	3	Define synapsis.	
	4	Define inversion.	
	5	What is haploid?	
	6	What are kappa particles?	
	7	What are genes present in cytoplasm known as?	
	8	What is christmas disease?	
	9	What is Shine Dalgarno sequence?	
	10	What is oligospermia?	
	11	What is the action of human chorionic gonadotropin (HCG)	
	12	What is a benign tumor?	
Q-4	1	LONG ANSWER QUESTIONS (ATTEMPT ANY 4) Write a note on extra nuclear inheritance of kappa particles in Paramecium.	32
	2	Write a note on Haemophilia.	
	3	Write a note on euploidy.	
	4	Write a note on karyotyping.	
	5	Write a short note on rRNA.	
	6	Write a note on electron microscopy	
	7	Write a short note on laparoscopy	
	8	Describe the characteristics of growing tumor cells.	