Total No. of Printed Pages:2

SUBJECT CODE NO:- 6158 FACULTY OF SCINECE AND TECHNOLOGY

M.Sc. (Sem-II)

Examination March/April-2022 (To be held in June/July-2022) Zoology (Old) Cell Biology -413

[Time	e: 3:45	Hours]				[Max.Marks:80
N.B			Please check whether you have 1. Part A is compulsory.	ve got the rig	tht question paper.	
			 attempt any five question from Draw a neat labeled diagram w 	7 / 4 / 1 / 6 / 1 / 6	ssary.	
			PAI	RT-A		Sold State of the
Q.1	Attem	pt the fo	llowing multiple choice questions.			20
			me was discovered by			
		•	De Duve	b.	Robert Brown	
		c.	Hooke	Second Control	Robinson.	
	2.	Enzvme	es involved in the oxidation of met	abolic in pro	karvotes	
		a.	Ribosome		Plasma Membrane	
		c.	Nucleus		Nucloid	
					10022 24 XX	
	3.		osomes with equal arms are called	as		
		a.	Submetacentric	b	Metacentric	
		c.	Telocentric	d.	Acrocentric	
	4.	DNA re	eplication in the cell division occur	s at which st	ages .	
	,67		G1 phase		S phase	
			G2 phase	d.	M phase	
	5.5	Which	of the following gene is involved i	n the convers	sion of proto-oncogene cau	sing corner
		a.	Metastasis gene	b.	Angiognensis gene	
S S S			Tumour supressure gene		None of these	
000	6.	Cell the	eory is not applicable to			
3770	32,25,7	a.	Bacteria	b.	Algae	
	XX 000	S S S S S	Virus	d.	Fungi	
Z Z Z	7.	The ma	in function of centosome is			
2 4 C	K St. St.) - K, VO (Secretion	b.	Osmoregulation	
	8,478	\$ 25°C.	Protein synthesis	d.	Formation of spindle fiber	•

	8. Vesicles are transported from El	to the Golgi Complex apparatue along	200			
	a. Microtubules	b. Intermediate filaments	190			
	c. Action filaments	d. None of them				
	9. Dye injected into an epithelial of	ell might be able to enter an adjacent cell through				
	a. Tight junction	b. Microtubules	S.A.			
	c. Desmosome	d. Gap junction				
	10. Paring of homologus chromosor	es can be seen during				
	a. Zygotene	b. Leptotene	(S)			
	c. Diplotene	d. Pachytene				
		PART-B				
	Attemp	any five question following.				
Q.2	Describe the general organization of neuron.					
Q.3	Give an account of structural organization and function of ribosomes.					
Q.4	Write in detail account of polyethene chromosome.					
Q.5	What is cell signaling? Describe different pathways of signal transduction.					
Q.6	Explain in detail meiosis and their regulation.					
Q.7	Write in detail cancer and the cell cycle.					
0.8	Describe the structure and function of antibody molecule.					