Total No. of Printed Pages: 3

## SUBJECT CODE NO: - F-6158 FACULTY OF SCIENCE & TECHNOLOGY M.Sc. (Sem- II) (Zoology (Old))

## Examination December/January-2022-23 Cell Biology -413

	Please check whe	ether you have got the right question paper.	
NI D	1) Dan IAlia a		
N. B	1) Part 'A' is c	y Five question from Part 'B'.	
		t labeled diagram wherever necessary.	
		Part - A	
Q1 Attempt the f	ollowing Multiple	Choice Questions.	20
1) Which	is the thickest fib	er of cytoskeleton?	
a) Mio	crofilament	b) Intermediate filament	
c) Mie	crotubule	d) None of above	
2) Which	substances are tra	ansported through facilitated diffusion?	
a) U	ea b) Oxygen	c) Alcohol d) Galactose	
3) The ti	gnfly packed form	of DNA is called as	
a) Si	per coding	b) Compressed State	
c) Euc	chromatin	d) Heterochromatin	
	pe of chromatin the A products is	nat participates in the active transcription of	DNA to
a) He	eterochromatin	b) Euchromatin	
c) Cei	ntromere	d) Acrocentric chromosome	

	F-6158
5)	The binding of a hormone to its receptor leads to
	a) Formation of hormone receptor complex
	b) leads to biochemical changes in the target tissue
	c) Affects target tissue metabolism
	d) All of Above
6)	Endocrine messengers are also called as
	a) Hormones b) Receptors c) Antibody d) Antigen
7)	Oncogenes is are the cancer causing genes in the cells but they do not express usually, this is because of the presence of
	a) Proto oncogenes b) Tumour promoters
	c) Tumor Suppresser genes d) Transposons or Jumping gene
8)	Cancer of -lymphocytes is called as
	a) sareoma b) Melanoma c) Myeioma d) Carcinoma
9)	The stimulation of antigene specific T-cells by appropriately presented antigen alone results in
	a) Cytotoxicity b) Allergy c) Cell division d) Production of IL-3
10	) Innate immunity is also called as
	a) familial b) genetic c) in born d) All of Above
	Part – B
2	npt any Five Questions 60
(3) 1)	
2)	Explain in detail the role of heterochromatin in genome organization.
3)	Describe in detail the functions of Mitochondria and add a note on chemiosmatic theory.

- 4) What are the types of hormone receptors?
- 5) Explain in detail the steps in the cell cycle?
- 6) What is baric differences between the normal cell and cancer cell.
- 7) How does the Antigen recognize by B- and T-cell receptors
- 8) Describe in detail the innate immune system.