SUBJECT CODE NO: - F-6046 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Sem-IV) (Zoology)

Examination December/January-2022-23 Developmental Biology-511

[Tin	ne: 3:00	Hours]	[Max. Marks:80
		Please check whether you have got the right question paper.	- 6,
N. B		1) Part A is compulsory.	
		2) Attempt any five questions from Part B	
		3) Draw neat labelled diagram wherever necessary.	3
		Part A	
Q1	Multin	ole choice questions.	20
	-	Alveolar cells of the lung arise from	
		a) Endoderm	
		b) Ectoderm	
		c) Mesoderm	
		d) Epiderm	
	2.	Cell specialization process is called	
		a) Crypto preservation	
		b) Differentiation	
		c) Proliferation	
		d) Gastrulation	
	3 .	The ability of the neuron to respond to a stimulus is known as	<u> </u>
		a) Flexibility	
		b) Conductivity	
		c) Excitability	
		d) Capability	
	4.	Zygote is formed in the part of fallopian tube.	
		a) Filarial	
		b) Hepatic	
		c) Ampullary	
		d) Deferentia	
	5.	The polar body is	
		a) Another name of an egg cell	
		b) The cell produced when fertilization occurs.	
Š		c) A precursor cell that becomes an egg cell	
		d) Non-functional cell made at the same time as an egg cell	
	Õ,		
	6.	Lyon hypothesis is related to which of the following?	
		a) Genetic incompatibility	
		b) Number of Barr bodies	
		c) Genetic compatibility	
		d) Centromeres position	

	7.	a) Blastula	
		b) Coasterula	
		c) Morula	
		d) neurula	
	8.	Mesoderm gives rise to all the structures except	
		a) Circulatory system	- 3
		b) Muscular system	
		c) Gonads	
		d) Nervous system	
	0	Which of the following is not an RHG family protein?	
	9.	a) Rad 51	
		b) Hid	
		c) Grim	(F)
		d) Sickle	
	10	. In chick development, the cell movement during gastrulation is called	
		a) Invagination	
		b) Involutionc) Epiboly	
		d) Ingression	
		a) ingression	
		Part B	
02.	Basani	be the process of spermatogenesis in mammals.	12
Q2			
Q3	Write	an account on the nuclear transplantation experiments of Briggs and King.	12
Q4	Explai	n the process of fertilization in sea urchin.	12
Q5	Descri	be the post embryonic larval development and metamorphic.	12
Q6	Descri	be the patterns of embryonic cleavage.	12
Q7	Descri	be the process of gastrulation in chick.	12
Q8	Descri	be in detail vulva formation in caenorhabditis elegans.	12