	LOYOLA COLLEGE (AUTONOMOUS), CHENNAI –	600 034
	M.Sc. DEGREE EXAMINATION – ZOOLOGY	
	ST 2	
	FIRST SEMESTER – NOVEMBER 2023	
PZO1MC02 – ADVANCED DEVELOPMENTAL BIOLOGY		
]	Date: 03-11-2023 Dept. No.	Max. : 100 Marks
,	Time: 01:00 PM - 04:00 PM	
SECTION A – K1 (CO1)		
	Answer ALL the questions	$(5 \times 1 = 5)$
1	Answer the following	
a)	Cryopreservation.	
b)	Gastrulation.	
c)	Hox genes.	
d)	Epimorphosis.	
e)	Teratogens.	
	SECTION A – K2 (CO1)	
	Answer ALL the questions	$(5 \times 1 = 5)$
2	Answer the following	
a)	Prenatal diagnosis.	
b)	Polyspermy.	
c)	Intracellular communication.	
d)	Cell death.	
e)	Lens placode.	
	SECTION B – K3 (CO2)	
	Answer any THREE of the following	$(3 \times 10 = 30)$
3	Interpret on cell fate and cell lineages	
4	Discuss the process of spermatogenesis	
5	Explain common causes of infertility in female.	
6	Enumerate the role of egg cortex during cleavage.	
7	Describe axis formation in Drosophila.	
SECTION C – K4 (CO3)		
	Answer any TWO of the following	$(2 \times 12.5 = 25)$
8	Write a note on morphogenetic gradients.	
9	Explain polycystic ovary syndrome	
10	Highlight the role of maternal genes during development.	
11	Explain in born errors in man	
	SECTION D – K5 (CO4)	
	Answer any ONE of the following	$(1 \times 15 = 15)$
12	Interpret on various patterns of regeneration	
13	Summarize the ethical implication of cloning	
SECTION E – K6 (CO5)		
1.4	Answer any ONE of the following	$(1 \times 20 = 20)$
14	Elaborate on Assisted reproductive technology.	
15	Enumerate the placental types in mammals.	
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