



LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION ADVANCED ZOOLOGY AND BIOTECHNOLOGY SECOND SEMESTER – APRIL 2025 UAZ2MC03 – EMBRYOLOGY



Date: 29-04-2025

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 PM

SECTION A - K1 & K2 (CO1)

Q. No	Level	Answer ALL the Questions	(10 x 2 = 20)
1	K1	Define Oogenesis.	
2		Write the functions of placenta.	
3		Differentiate between Primary and secondary organizers.	
4		What is the importance of the germ layers.	
5		Define metastasis.	
6	K2	Write any two characteristics of stem cells.	
7		Differentiate between pluripotent embryonic cells and cancer cells.	
8		Define teratogens.	
9		Comment on fate map.	
10		Define IVF	

SECTION B – K3 & K4 (CO2)

		Answer ALL the Questions	(4 x 10 = 40)
11	K3	Write a note on fertilization in mammal embryos. [OR]	
12		List out the characteristics of cleavage.	
13		Explain Hormonal reactivation of development in metamorphosis. [OR]	
14		Explain the development of heart in mammals.	
15	K4	Classify the different types of regeneration. [OR]	
16		Explain the Embryo implantation and placentation.	
17		Examine the causes and types of Infertility [OR]	
18		Explain the Preimplantation genetic diagnosis.	

SECTION C – K5 & K6 (CO3)

		Answer ALL the Questions	(2 x 20 = 40)
19	K5	Summarize the steps in gastrulation of sea Urchin embryos. [OR]	
20		Compose an essay to elaborate the development of foetal membranes in vertebrates	
21	K6	Prepare a diagrammatic flowchart of the steps in Spermatogenesis. [OR]	
22		Describe the Congenital malformation due to genetic.	

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