Reg. No



Time: 3 hrs

PART – A

## GIET UNIVERSITY, GUNUPUR - 765022 M. Sc. (Fourth Semester) Examinations, May - 2024

20LSASPC403 - Ethology and Developmental Biology

(Life Science – Animal Science)

Maximum: 70 Marks

## (The figures in the right hand margin indicate marks.)

## $(2 \times 10 = 20 \text{ Marks})$

Q.1. Answer ALL questions		CO #	Blooms
			Level
a.	What is orientation?	CO1	K1
b.	What do you mean by Kinesis?	CO1	K1
c.	What is Telotaxis?	CO1	K1
d.	What is Courtship display?	CO1	K1
e.	What is Holoblastic cleavage?	CO1	K1
f.	What is Isolecithal egg?	CO1	K1
g.	What is Totipotency?	CO1	K1
h.	What is Placenta?	CO1	K1
i.	What is <i>in vitro</i> fertilization?	CO1	K1
j.	Briefly explain the Rhythm method of contraception with reference to safe and danger period in mensrual calender.	CO1	K2

## PART - BMarks CO # Blooms Answer ANY FIVE questions Level Explain Flexible learning. 5 CO1 K2 2. a. Explain Pavlov experiment on classical conditioning. CO1 K2 5 b. Explain different type of positive orientation with examples. 5 CO<sub>2</sub> K2 3.a. Differentiate between Positional Orientation and Zonal Orientation. 5 CO2 K4 b. What do you mean by courtship? 5 CO2 K1 4. a. CO3 b. What are the different advantages of courtship Behaviour? 5 K1 5 CO3 5.a. What is Biological clock? K1 How does a biological clock work? 5 CO4 K1 b. K1 CO4 5 6. a. What do you mean by fertilization? CO1 K1 b. Explain mechanism of fertilization. 5 CO1 K1 7.a. Explain anterior-posterior polarity in terms of differential gene expression in 5 Drosophila.

AY 22

(10 x 5 = 50 Marks)

b.	Explain the role and regulation of bicoid, hunchback, nanos and caudal gene during development of Drosophila.	5	CO1	K1
8. a.	Explain Menstrual cycle.	5	CO1	K1
b.	Discuss Infertility in male and Females.	5	CO1	K1