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**GIET UNIVERSITY, GUNUPUR – 765022**  
M. Sc (Third Semester) Examinations, December' 2020  
**LPSC 303 – Ethology & Developmental Biology**  
**(Life Sciences)**

Time: 2 hrs

Maximum: 50 Marks

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

Q.2. Answer **ALL** the questions:

(2 x 10 = 20)

- a. Cohesion
- b. Instinct
- c. Memory
- d. Cleavage
- e. Chorion
- f. Differentiation
- g. Organizer
- h. Capacitation
- i. Artificial Insemination
- j. Placenta

**PART – B (6 x 5 = 30 Marks)**

Answer ANY FIVE questions

Marks

2. Define Kinesis. Write a note on orientation in animals. (6)
3. Define Learning. Elaborate on the neural mechanism of learning. (6)
4. Describe the social behaviour in insects. (6)
5. What is the biological clock? How does the biological clock regulate the behaviour of animals? (6)
6. Describe the molecular events during fertilization. (6)
7. What is Emboly? Elaborate on the different morphometric movements during gastrulation (6)
8. What is embryo transfer technique? How is it useful during *in vitro* fertilization? (6)
9. Define fetal membrane. Write a note on fetal membranes and their development. (6)

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