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GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)

M. Sc. (Third Semester) Regular Examinations, December – 2024

22ASPC301 – Biology of Nonchordata

(M.Sc. Animal Science)

Time: 3 hrs | Maximum: 70 Marks

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

UNIT-1

PART – A **(2 x 10 = 20 Marks)**

Q.1. Answer ***ALL*** questions	CO #	Blooms Level
a. What is polymorphism?	CO1	K3
b. What is the importance of reproduction for sustaining life?	CO1	K4
c. Which layers derive the organs of an organism?	CO2	K4
d. Write the name of the host *Ascaris lumbricoides.*	CO2	K4
e. Different ways of respiration in Mollusca.	CO3	K4
f. What is the importance of lac culture in Indian economy.	CO4	K4
g. Why hemichordate named so?	CO3	K4
h. Define the term regeneration?	CO1	K3
i. Discuss the two types of coiling in Mollusca.	CO3	K3
j. Define metamerism.	CO2	K3

PART – B **(10 x 5 = 50 Marks)**

Answer ***ANY FIVE*** questions	Marks	CO #	Blooms Level
2. Write a note on life cycle of honey bee. Discuss importance of apiculture.	10	CO4	K3
3.a. Discuss about torsion and detorsion in Mollusca with suitable diagram. 5	5	CO3	K3
b. Write a note on segmental organs.	5	CO2	K3
4. a. Discuss on the branchial respiration in Mollusca.	5	CO3	K3
b. Write a note on the sol gel theory of amoeba.	5	CO1	K3
5.a. Discuss structure and affinities of Ctenophora.	5	CO1	K3
b. Discuss about the larval forms of Echinodermata.	5	CO3	K4
6. Exemplify the birth pattern of *Taenia solium.*	10	CO2	K4
7.a. Discuss how coelom is formed?	5	CO2	K4
b. Write a note on natural pearl formation.	5	CO4	K3
8. Embellish the working mechanism of vision in insect with fine diagram.	10	CO2	K4