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GIET UNIVERSITY, GUNUPUR – 765022
M. Sc. (Third Semester) Examinations, December – 2022
20ASPC301 – Biology of Non-Chordata
(Life Science – Animal Science)

Time: 3 hrs

Maximum: 70 Marks

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

PART – A**(2 x 10 = 20 Marks)**

Q.1. Answer ALL Questions

	CO#	Blooms Level
a. Define the movement of ciliopora.	1	3
b. Explain morphological structure of <i>Trypanosoma gambiense</i> .	1	4
c. Segmentation is distinctive character of earthworm. Assert this statement	2	2
d. Define pallial respiration in gastropods.	2	3
e. Justify whether arthropods are similar to peripatus.	3	3
f. Mention the modification of bipinnaria larva so that it becomes to branchiolaria?	3	3
g. Write the significance of sponges .	1	2
h. Extricate the royal jelly and lac.	4	3
i. Write economic importance of silk.	4	2
j. What are the chemical treatment of <i>Ancylostoma duodenale</i> ?	1	1

PART – B**(10 x 5 = 50 Marks)**Answer ANY FIVE questions

	Marks	CO#	Blooms Level
2. a. Exemplify the life cycle of <i>Trypanosoma gambiense</i> .	5	1	4
b. Describe the process of endomixis in paramecium.	5	1	3
3.a. Describe with diagram the internal organisation of proglottid of <i>Taenia</i> .	5	2	4
b. What is the importance and types of body cavity.	5	2	3
4. Enumerate the structure and working mechanism of compound eye in <i>A.domesticus</i> .	10	3	4
5.a. Comment on the product & use of <i>Bombyx mori</i> .	5	4	3
b. Some mollusc are economically important. Give reason	5	4	4
6. Canal system is survival mechanism for sponges. explain with diagrams	10	1	3
7.a. Describe the reproductive organs of ascaris.	5	2	4
b. Give reason why Echinodermata is significance to ecosystem?.	5	3	3
8. How the larval rotation takes place in mollusc? Enumerate the process.	10	3	3

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