

U.G. 1st Semester Examination - 2023**ZOOLOGY****[MINOR]****Course Code : ZOOL-MI-T-101****(Basic Idea of Animal Diversity and Taxonomy)****[NEP-2020]**

Full Marks : 25

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***Answer all the questions.**

1. Answer any **five** questions of the following : $1 \times 5 = 5$
 - a) What is metagenesis? Give one example where it is found.
 - b) What is septal nephridia? Where it is found?
 - c) What is stone canal and where is it found?
 - d) Write the scientific name of one poisonous snake.
 - e) What is Homonym?
 - f) Name the disease caused by *Entamoeba histolytica*.

[Turn over]

g) What is fang?

h) What is latitudinal migration in birds?

2. Answer any **two** questions of the following :

$5 \times 2 = 10$

a) Define swim bladder. Differentiate between Physostomous and Physoclistus type of swim bladder.

$2 + 3 = 5$

b) Define the term retrogressive metamorphosis. Mention some progressive and retrogressive changes in *Ascidia*.

$1 + 4 = 5$

c) Why termites are called social insect? How many castes are there in termite colony? Give example. Mention some functions of soldiers in termite colony.

$2 + 2 + 1 = 5$

d) Why does *Pila* amphibious in nature? Mention their respiratory organs of aquatic and aerial mode of life. Describe with suitable labelled diagram of aquatic mode of respiration in *Pila*.

$1 + 1 + 3 = 5$

3. Answer any **one** question of the following :

$10 \times 1 = 10$

a) What is canal system? Describe the syconoid type of canal system. Write some functions of canal system.

$2 + 6 + 2 = 10$

b) What is parental care. Describe in brief different types of parental care found in Amphibia with suitable example. Mention one characteristic features of Anurans and give one example of it.

$3 + 5 + 2 = 10$

c) Describe the life cycle of *Ascaris lumbricoides* with suitable labelled diagram. Write the name of the disease caused by it and mention one symptom and control measure of this disease.

$5 + 3 + 2 = 10$

d) Define the term conjugation. Describe with suitable labelled diagram of the process of conjugation in *Paramecium*.

$2 + 4 + 4 = 10$