

UUCMS No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

B.M.S COLLEGE FOR WOMEN

BENGALURU -560 004

V SEMESTER END EXAMINATION – JAN/FEB-2024

B.Sc – ZOOLOGY - NON-CHORDATES AND ECONOMIC ZOOLOGY
(NEP Scheme 2021-22 onwards)

Course Code: ZOO5DSC05

Duration: 2 ½ Hours

QP Code: 5028

Max. Marks: 60

Instructions: 1. Draw neat labelled diagrams wherever necessary.
2. The answer should be completely in English.

PART-A

I. Answer the following in one word or one sentence.

(5X1=5)

1. What is spongocoel?
2. Name the anticoagulant secreted by Hirudinea.
3. Which is the larva of Hemichordata?
4. Give the generic name for the Rice bug.
5. Mention any one byproduct of Lac culture.

PART-B

II. Answer any FIVE of the following.

(5X3=15)

1. Distinguish between male and female Ascaris.
2. Construct a neat labelled diagram of Nauplius larva.
3. Mention the significance of torsion in Pila.
4. Describe the morphology of Balanoglossus.
5. Paraphrase any three affinities of Hemichordates with Echinoderms.
6. How is Pyrilla infestation controlled?
7. Lac is an eco-friendly, biodegradable product of the Lac insect. Justify.

PART-C

III. Answer any FOUR of the following.

(4X5=20)

1. Elucidate the morphology of Paramecium with a neat labelled sketch.
2. Enumerate the salient features of Ctenophores.
3. Explain the male reproductive system of Leech with a neat labelled diagram.
4. Sketch and label the nervous system of Palaemon.
5. Describe the externals of the Pentoceros with a neat labelled diagram.
6. Exemplify the life cycle of Anopheles mosquito.

PART-D

III. Answer any TWO of the following.

(2X10=20)

1. Explain the process of reproduction in Obelia with neat labelled sketches.
2. With suitable sketches, describe the structure and functions of the cephalic appendages of Palaemon.
3. Provide a detailed account of the design of the water vascular system in the Pentoceros.
4. Earthworms are 'Farmer's friends'. Discuss.
