



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

DEPARTMENT OF NATURAL AND APPLIED SCIENCES

QUALIFICATION: BACHELOR OF SCIENCE	
QUALIFICATION CODE: 07BOSC	LEVEL: 6
COURSE CODE: EBD601S	COURSE NAME: EVOLUTION AND BIOLOGICAL DIVERSITY
SESSION: JUNE 2022	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
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INSTRUCTIONS
<ol style="list-style-type: none">1. Write clearly and neatly2. Number the answers clearly3. All written work MUST be done in blue or black ink4. No books, notes and other additional aids are allowed5. Mark all answers clearly with their respective question numbers6. Draw diagrams wherever necessary

PERMISSIBLE MATERIALS

None

THIS QUESTION PAPER CONSISTS OF 3 PAGES
(Including this front page)

QUESTION 1:

Fill in the blanks

[5]

- 1.1 Arachnids have simple eyes called _____ . (1)
- 1.2 Fish whose eggs stay within the mother are called _____ . (1)
- 1.3 Specialized _____ cells to remove wastes for the flatworm. (1)
- 1.4 The water vascular system of echinoderms opens to the environment through the _____ . (1)
- 1.5 What is the yolk in bird called _____? (1)

QUESTION 2:

Define the following terms

[5]

- 2.1 Placoid scale (1)
- 2.2 Corona (1)
- 2.3 Ctenes (1)
- 2.4 Pedipalp (1)
- 2.5 Cranium (1)

QUESTION 3:

Distinguish between the pairs of the following terms

[6]

- 3.1 Cnidocyte; colloblast (2)
- 3.2 Tube foot; ampulla (2)
- 3.3 Carapace; plastron (2)

QUESTION 4:

One sentences answers

[9]

- 4.1 Name the first animals (phylum) that have true body cavity. (1)
- 4.2 Which of the mollusk classes are filter feeders? (1)
- 4.3 Book lung is a characteristic of which Phylum? (1)
- 4.4 Which animal phylum is commonly called as sea anemone? (1)

- 4.5 Rotifera are commonly known as what? (1)
- 4.6 Which animal phylum is considered to be first triploblastic animals? (1)
- 4.7 Name the mollusks without a shell. (1)
- 4.8 What are placental mammals called scientifically? (1)
- 4.9 Water vascular system is a peculiar feature of which phylum? (1)

QUESTION 5:

Short questions [10]

- 5.1 Draw the structure of choanocytes in a sponge and label its part. (3)
- 5.2 What are the three order of reptiles and give example of each? (3)
- 5.3 In tabular form, mention the difference between the frog and toad. (4)

QUESTION 6:

Longer questions [35]

- 6.1 Tabulate the main differences between shark and ray fish. (5)
- 6.2 Compare and contrast between Planarians and Tapeworms. Your results should be presented in tabular form. (10)
- 6.3 Explain the external aperture of earthworm with diagram. (10)
- 6.4 Sketch the flow chart of Phylum Chordata Classification with example. (10)

QUESTION 7:

Essay questions [30]

- 7.1 In a tabular column form distinguish among arthropod subphyla mandibulate and give two examples of animals that belong to each group. (12)
- 7.2 Outline the various types and form of feathers found on the wing of the bird. (18)

THE END