

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES DEPARTMENT OF NATURAL AND APPLIED SCIENCES

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

| SUPPLEMENTARY / SECOND OPPORTUNITY EXAMINATION QUESTION PAPER | | | |
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| EXAMINER(S) | DR JEYA KENNEDY | | |
| MODERATOR: | DR MUNYARADZI ZIVUKU | | |
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INSTRUCTIONS

- 1. Write clearly and neatly
- 2. Number the answers clearly
- 3. All written work MUST be done in blue or black ink
- 4. No books, notes and other additional aids are allowed
- 5. Mark all answers clearly with their respective question numbers
- 6. Draw diagrams wherever necessary

PERMISSIBLE MATERIALS

None

THIS QUESTION PAPER CONSISTS OF 4 PAGES

(Including this front page)

| | TION 1: ple choices | [4] |
|-----|---|-----|
| 1.1 | The members of phylum Rotifera are cosmopolitan, which means they are found in many different habitats, and the body is made of three parts. These three parts are the; a) head, body, and foot b) head, abdomen, and tail c) head, neck, and body d) head, trunk, and tail | (1) |
| 1.2 | The coelacanth is an example of a; a) primitive, fishlike amphibian b) jawless fish c) lobe-finned fish d) ray-finned fish | (1) |
| 1.3 | In a bird, the breakdown of food begins in the;a) proventriculus.b) esophagus.c) small intestine.d) cloaca. | (1) |
| 1.4 | The only egg-laying mammals are found in the order; a) Monotremata b) Marsupialia c) Placental d) Rodentia | (1) |
| | TION 2: the blanks | [5] |
| 2.1 | Flatworms are in the phylum and are flattened with symmetry. | (2) |
| 2.2 | Brittle stars are in the class and have slender that easily break off to escape predators. | (2) |
| 2.3 | The oldest known bird is | (1) |

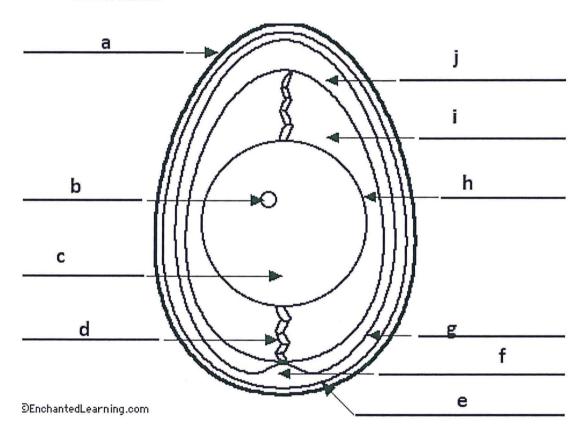
| OUFS | TION 3: | |
|------|--|-------------|
| | nguish between the pairs of the following terms | [6] |
| 3.1 | Lancelet; Tunicate | (2) |
| 3.2 | Mastax; Corona | (2) |
| 3.3 | Telson; swimmeret | (2) |
| | TION 4: centences answers | [10] |
| 4.1 | Which order containing salamanders? | (1) |
| 4.2 | Name the first animals (phylum) that have true body cavity. | (1) |
| 4.3 | Which of the mollusk classes are filter feeders? | (1) |
| 4.4 | Book lung is a characteristic of which Phylum? | (1) |
| 4.5 | Which specialized cell that carries the food to all other parts of the sponge. | (1) |
| 4.6 | Name the invertebrate phylum that belong to deuterostome. | (1) |
| 4.7 | Aristotle's Lantern is a characteristic feature of which echinoderm? | (1) |
| 4.8 | Which animal phylum is commonly called as sea anemone? | (1) |
| 4.9 | How many ciliary plates do Ctenophores usually have? | (1) |
| 4.10 | Name the largest part of a mammalian brain. | (1) |
| | TION 5: questions | [11] |
| 5.1 | Which phylum and subphylum are sea squirts found? | (2) |
| 5.2 | What are glue cells found in Ctenophores and their function? | (2) |
| 5.3 | How does a frog capture insect? | (1) |
| 5.4 | List the three classes of sponges and distinguish characteristics among them be on skeleton structure. | ased (3) |
| 5.3 | What are the three order of amphibians and give example of each? | (3) |

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be presented in tabular form.

| Longe | r questions | [34] |
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| 6.1 | Distinguish between different classes of annelids with example. | (6 |
| 6.2 | Name the four specialised teeth of mammals and its function. | (6) |
| 6.3 | Compare and contrast between Platyhelminthes and Nematode, Your results sh | ould |

- 6.4 In a tabular form distinguish the two super classes Pisces. (7)
- 6.5 Identify the structures labelled from a-j in the diagram of an amniote egg of the bird shown below. (5)



QUESTION 7:

| Essay questions | | |
|-----------------|--|------|
| 7.1 | Explain the general characteristics of Phylum Mollusca. | (15) |
| 7.2 | Describe the structure of shark with the aid of an annotated diagram | (15) |

THE END

(10)