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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2022/2023**

- COURSE NAME : ANIMAL DIVERSITY
- COURSE CODE : BWJ 11403
- PROGRAMME CODE : BWW
- EXAMINATION DATE : JULY / AUGUST 2023
- DURATION : 3 HOURS
- INSTRUCTIONS :
1. ANSWER ALL QUESTIONS
 2. THIS FINAL EXAMINATION IS CONDUCTED VIA
 - Open book
 - Closed book
 3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

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- Q1 (a) List **TWO (2)** characteristics of animals. (2 marks)
- (b) Construct a complete dichotomous key for all animals provided in **Figure Q1.1**. (16 marks)

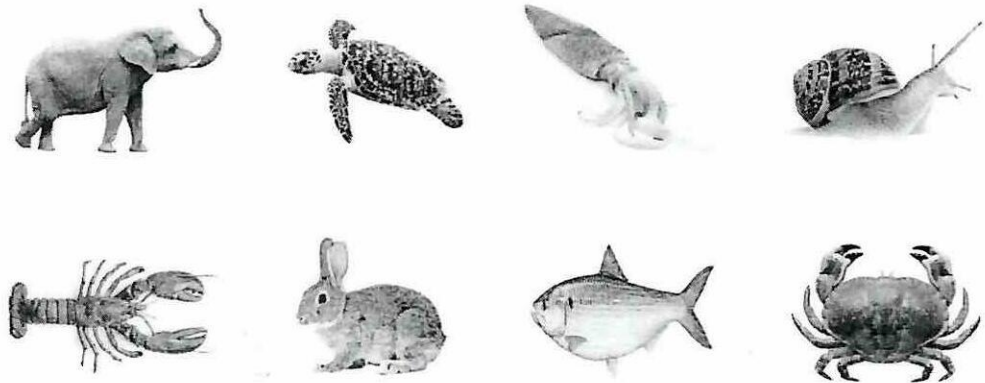


Figure Q1.1

- (c) Describe the scientific reasoning behind the belief that a unicellular organism is the common ancestor of animals. (3 marks)
- (d) Outline **TWO (2)** importances of the coelom in an animal's body. (4 marks)
- Q2 (a) Identify **THREE (3)** similarities in body structures that are displayed in all animals belonging to the Phylum Mollusca. (3 marks)
- (b) Explain **ONE (1)** function of each structure mentioned in Q2(a). (3 marks)
- (c) Name structure 'A' in **Figure Q2.1**.

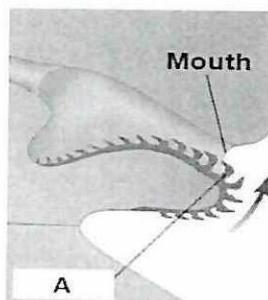


Figure Q2.1

(1 mark)

- (d) Elaborate **TWO (2)** functions of structure 'A' mentioned in **Figure Q2.1**.
(4 marks)
- (e) Annelids are also known as 'bristle worms' because of the presence of the tiny hair-like structure. Determine the name of this structure.
(1 mark)
- (f) Discuss **THREE (3)** functions of the structure mentioned in **Q2(e)**.
(6 marks)
- (g) Classify **FOUR (4)** animals belonging to the Phylum Echinodermata.
(4 marks)
- (h) Point out **TWO (2)** similarities shared by all animals belonging to Phylum Echinodermata.
(2 marks)
- (i) Name **ONE (1)** class of Hemichordate.
(1 mark)
- Q3** (a) All bony fishes belong to Class Osteichthyes. Name **TWO (2)** sub-classes of this class.
(2 marks)
- (b) Differentiate both sub-classes mentioned in **Q3(a)** by giving **FOUR (4)** points of comparison.
(8 marks)
- (b) Describe **THREE (3)** methods of respiration for amphibians.
(6 marks)
- (c) Compare primary and secondary flight feathers by giving **TWO (2)** points of comparison.
(8 marks)
- (d) Identify the type of feathers that are suitable for making a blanket.
(1 mark)
- Q4** (a) List **TWO (2)** kinds of hairs that can be found in mammals and describe the function of each hair listed.
(6 marks)
- (b) You are invited to join an expedition organized by Johor Park National Corporation at Gunung Ledang National Park that will occur at the end of this month. As a researcher, you plan to sample the diversity of vertebrates during

the expedition. Plan your sampling activities by listing out **TWO (2)** possible vertebrates that you can sample. Explain each technique that you will use for the sampling and give **TWO (2)** advantages of each chosen technique.

(10 marks)

- (c) Animals' interaction occurs in many ways whether between animal and animal or between animal and plant. Name **TWO (2)** types of interaction for animal-animal and animal-plant interaction. Give **ONE (1)** suitable example with an explanation for each interaction.

(8 marks)

- (d) Name **ONE (1)** animal that is usually used for biological control of pests in the agriculture area.

(1 mark)

- END OF QUESTIONS -