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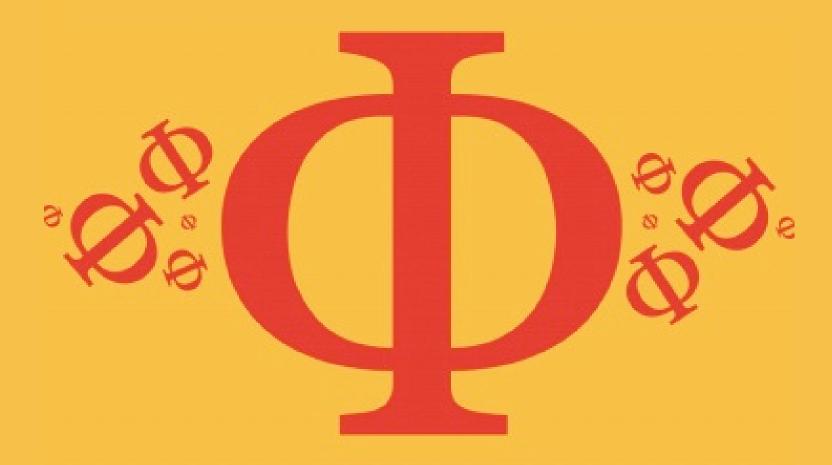
Practice questions created by actual examiners and assessment experts

Detailed mark scheme

Suitable for all boards

Designed to test your ability and

# **5.2 Classification & Cladistics**Easy



# **BIOLOGY**

**IB HL** 



# 5.2 Classification & Cladistics

## **Question Paper**

Course	DP IB Biology
Section	5. Evolution & Biodiversity
Topic	5.2 Classification & Cladistics
Difficulty	Easy

### **EXAM PAPERS PRACTICE**

Time allowed: 10

Score: /5

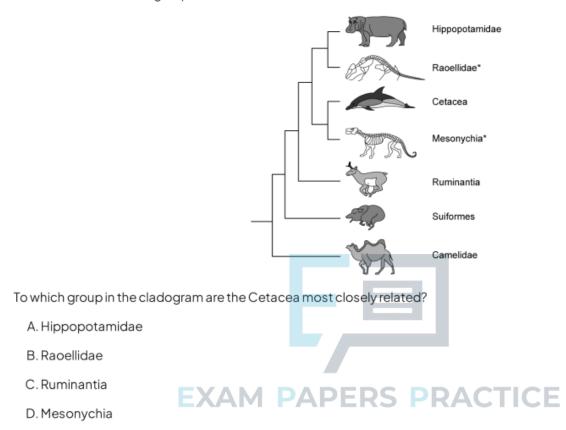
Percentage: /100



#### Question 1

The diagram shows a cladogram for part of the order artiodactyla.

\* denotes a now extinct group.



[1 mark]

#### Question 2

The onion plant, Allium cepa, and wild garlic, Allium ursinum, are flowering plants. Which of the following statements about onions and wild garlic are correct?

- A. Onions and wild garlic are in the same class and the same genus.
- $B.\,Onions\,and\,wild\,garlic\,are\,in\,the\,same\,class\,and\,a\,different\,genus.$
- C. Onions are in the order cepa and wild garlic is in the order ursinum.
- D. Onions and wild garlic both belong to the Allium family

[1 mark]



#### Question 3

Thysanozoon nigropapillosum, Rhizostoma pulmo, and Deroceras agreste are species of animal. T. nigropapillosum has bilateral symmetry and a single opening for mouth and anus. R. pulmo has radial symmetry, and D. agreste has bilateral symmetry and a single muscular foot. Which phyla in the table are correct for T. nigropapillosum, R. pulmo, and D. agreste?

	T. nigropapillosum	R. pulmo	D. agreste
A.	Mollusca	Porifera	Arthropoda
В.	Annelida	Cnidaria	Platyhelminthes
C.	Platyhelminthes	Cnidaria	Mollusca
D.	Platyhelminthes	Porifera	Mollusca

[1 mark]

#### Question 4

Which of the following is used by biologists around the world to name living organisms at the species level?

- A. Cladistics
- B. Phylogenetics
- C. The binomial system
- D. The three domain system



[1 mark]

#### Question 5

Theories can change when new evidence emerges. Evidence relating to the evolutionary relationships between organisms can lead to their reclassification. What led to the reclassification of the figwort plant family?

- A. Observations about flower shape.
- B. The figwort family was too large.
- C. The figwort family formed a clade.
- D. Analysis of chloroplast DNA

[1 mark]