

5.2 Classification & Cladistics

Question Paper

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

Time allowed: 10

Score: /5

Percentage: /100



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Question 1

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 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
Α.	Mollusca	Porifera	Arthropoda
В.	Annelida	Cnidaria	Platyhelminthes
C.	Platyhelminthes	Cnidaria	Mollusca
D.	Platyhelminthes	Porifera	Mollusca

[1 mark]

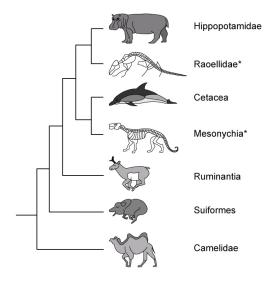


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Question 4

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

* denotes a now extinct group.



To which group in the cladogram are the Cetacea most closely related?

- A. Hippopotamidae
- B. Raoellidae
- C. Ruminantia
- D. Mesonychia

[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]