

1.2 Cells: Origin & Ultrastructure

Question Paper

Course	DP IB Biology
Section	1. Cell Biology
Topic	1.2 Cells: Origin & Ultrastructure
Difficulty	Easy

Time allowed: 10

Score: /5

Percentage: /100



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Question 1

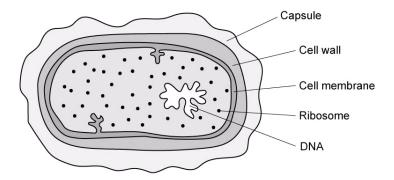
Which row correctly compares the magnification and resolution of an electron microscope with a light microscope?

	Magnification	Resolution
Α.	Lower	Higher
В.	Higher	Lower
C.	Higher	Higher
D.	Lower	Lower

[1 mark]

Question 2

The diagram shows a type of prokaryotic cell, a bacterium.



Which three structures are found in **both** an animal cell and this bacterium cell?

- A. cell membrane, cell wall and DNA
- B. cell membrane, DNA and ribosome
- C. capsule, DNA and ribosome
- D. capsule, cell membrane and cell wall

[1 mark]



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Question 3

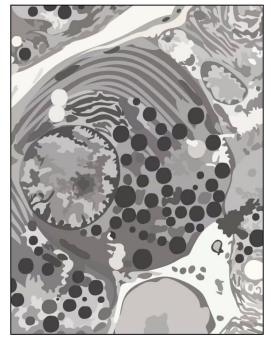
Which of the following can **not** be viewed using a light microscope?

- A. Nucleus
- B. Cell wall
- C. Chloroplasts
- D. Ribosomes

[1 mark]

Question 4

The image below shows an electron micrograph of a specialised cell.



Based on the image, which of the following would correctly identify the function of this specialised cell?

- A. This is a cell found in a gland that secretes enzymes for digestion.
- B. This is a cell that carries out photosynthesis in the leaf of a plant.
- C. This is a cell that transports oxygen around the body in the blood.
- D. This is a cell that absorbs nutrients from digested food and transports them into the food in the small intestine.

[1 mark]



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Question 5

Which of the following corr	ectly identifies the p	process that allows r	orokarvotic cells	to reproduce?

A. Mitosis

B. Binary fission

C. Fertilisation

D. Meiosis

[1 mark]