



QUESTION WORKBOOK

Digestion and absorption: one tube, four chemistries

Nutrition, digestion and health evidence · Unit B10

AQA 3.3.3 · OCR A 2.1.4, 2.1.5 (the enzymes and the transport, not digestion as a topic)
Edexcel A Topic 1.5-1.6 · CAIE 4.2 (membrane transport only)

5 questions · 17 marks

NAVY SCREEN EDITION

SECTION A · Short, 1 to 2 marks

- A1** Name the enzyme that hydrolyses maltose, and name the exact place in the ileum at which that enzyme is found. [2]

SECTION B · Standard, 3 to 5 marks

- B1** Explain why a mixture containing only exopeptidases would digest a protein far more slowly than one that contains endopeptidases as well. [4]

- B2** Explain how bile salts increase the rate at which lipid is digested, and explain how micelles help the products of that digestion to be absorbed. [4]

B3 Describe how glucose is absorbed from the lumen of the ileum into the blood, making clear where in the cell ATP is used. [4]

B4 A patient has had a long section of the ileum removed by surgery. Suggest why the patient loses body mass, and suggest why the faeces contain an unusually high proportion of fat. [3]
