

4.1 Biological Molecules

Question Paper

Course	CIE IGCSE Biology
Section	4. Biological Molecules
Topic	4.1 Biological Molecules
Difficulty	Hard

Time allowed: 10
Score: /3
Percentage: /100

Question 1

A group of students tested four different foods using some common food tests.

Their results are shown in the table below.

Which food contains reducing sugar and Vitamin C but **not** protein or starch?

	Benedict's test	Biuret test	Iodine test	DCPIP test
A	brick-red	purple	brown	colourless
B	brick-red	blue	brown	colourless
C	blue	blue	black	blue
D	brick-red	blue	black	colourless

[1 mark]

Question 2

The table below shows the elements and basic units used by cells to make large biological molecules.

Which row of the table is correct?

	basic units	elements	large molecule
A	amino acid	carbon, hydrogen, oxygen, nitrogen	protein
B	glycerol	carbon, hydrogen, oxygen, nitrogen	fats
C	glycerol	carbon, hydrogen, nitrogen	fats
D	amino acid	carbon, hydrogen, oxygen	DNA

[1 mark]

Question 3

Four foods were tested for the following nutrients:

- reducing sugar using Benedict's reagent
- protein using Biuret solution
- fat using ethanol
- Vitamin C using DCPIP

Which food contains sugar and Vitamin C?

	colour of food test result			
	brick-red/orange	purple/lilac	colourless	milky-white
A	✓	X	✓	X
B	✓	X	X	✓
C	X	✓	✓	X
D	X	X	✓	✓

[1 mark]