Write your name, centre number and candidate number in the boxes below.

Surname	Other names

Centre number | | | | | |

Candidate number | | | | |

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Food tests

Time allowed: 15 minutes

Subject code **0610**

Biology

Questions from Paper 1 and Paper 2

You must have: a soft pencil, an eraser and a pen.

Total marks

/ 10

Instructions

- There are 10 questions. Each has four options: A, B, C and D.
- Choose one option for each question and record it as your teacher directs.
- If you change a choice, rub out the first one completely.

Information

- This paper has 10 questions worth 10 marks in total.

Advice

- Read every question through once before you write anything.
- If you finish early, go back and check your working.

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Turn over ►

Print at 100% (Actual size) so diagrams keep their real measurements.

1 A test was performed on a food substance. A positive result was shown by a colour change to blue-black.

What solution was used for the test?

A biuret solution

B DCPIP solution

C iodine solution

D Benedict's solution

Food tests Click for more variations

2 A student carries out a test to see whether the solution in a test-tube contains protein.

Which row shows the correct food test and a positive result?

	name of test	colour seen with a positive result
A	Benedict's test	blue-black
B	Benedict's test	purple
C	biuret test	blue-black
D	biuret test	purple

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3 Which row is correct for a positive food test for vitamin C?

	colour of the food test reagent at the start	heat required	final colour of the food test reagent
A	colourless	yes	purple
B	blue	no	colourless
C	colourless	no	blue
D	blue	yes	orange

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4 Four foods were tested for each of the following nutrients:

fat (using ethanol);

protein (using the biuret test);

reducing sugar (using Benedict's solution),

Which food contains protein and fat?

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

key

✓ = nutrient present

✗ = nutrient absent

Food tests Click for more variations

5 Which chemical tests should a student use to test lemon juice for reducing sugars and vitamin C?

	reducing sugars	vitamin C
A	Benedict's solution test	DCPIP solution test
B	Benedict's solution test	ethanol emulsion test
C	biuret test	DCPIP solution test
D	biuret test	ethanol emulsion test

Food tests Click for more variations

6 A student placed amylase and starch solution in a test-tube.

After some minutes, the student tested samples of the liquid in the test-tube. They recorded the colour of the samples after testing for starch and reducing sugar.

Which row shows the test used and the expected results?

	test used		test result	
	to test for starch	to test for reducing sugar	test for starch	test for reducing sugar
A	DCPIP	Benedict's solution	blue-black	red
B	DCPIP	biuret	yellow-brown	blue
C	iodine solution	Benedict's solution	yellow-brown	red
D	iodine solution	biuret	blue-black	blue

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7 The table shows the results of some food tests.

Which row shows a food that contains carbohydrates only?

	Benedict's solution test	biuret test	ethanol emulsion test	iodine solution test
A	blue	purple	clear	blue-black
B	blue	blue	cloudy	yellow-brown
C	red	blue	clear	blue-black
D	red	purple	cloudy	yellow-brown

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8 A doctor tested the urine of four patients for both glucose and protein. The colours of the urine samples after testing are shown in the table.

Which patient's urine contained both protein and glucose?

	colour after testing with biuret solution	colour after testing with Benedict's solution
A	blue	brick red
B	blue	blue
C	purple	brick red
D	purple	blue

Food tests Click for more variations

9 A sample of food is tested with different chemical substances.

The table shows the results.

chemical used to test the food sample	final colour of the sample
iodine solution	yellow-brown
biuret	purple
DCPIP	colourless

Which nutrients does the sample of food contain?

A protein and vitamin C

B protein only

C starch and reducing sugar

D starch and vitamin C

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10 The table shows the results of food tests carried out on a fruit.

test	Benedict's solution	biuret	ethanol emulsion	iodine solution
result	positive	positive	negative	negative

What did the fruit contain?

A fat and reducing sugar

B fat and starch

C protein and reducing sugar

D protein and starch

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