



Digestive System

2003

- 1 The table below shows the proportions of undigested and digested carbohydrates, fats and proteins in three regions of the digestive system.

type of nutrient	mouth	stomach	small intestine
1			
2			
3			

Key

- undigested food
 digested food

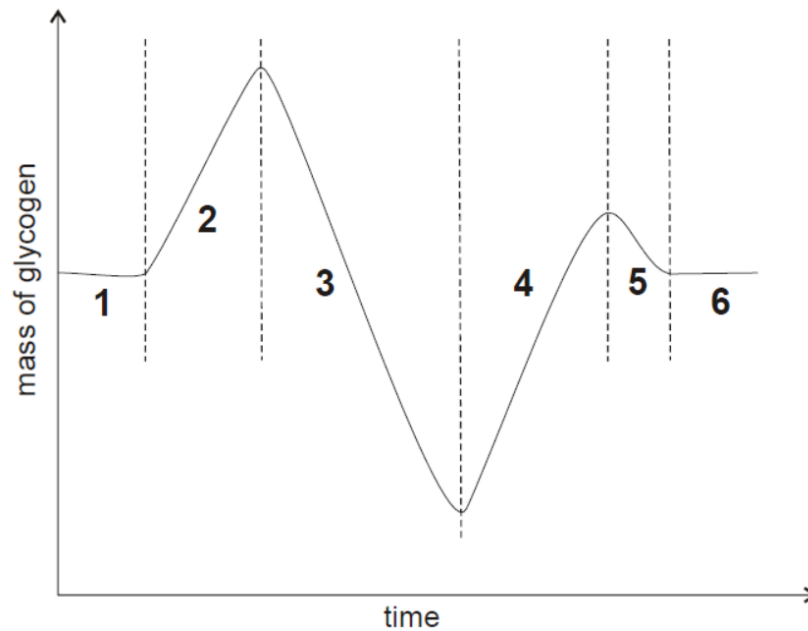
Which row of the table below correctly identifies the types of nutrient 1, 2 and 3?

	1	2	3
A	protein	fat	starch
B	starch	protein	fat
C	protein	starch	fat
D	fat	protein	starch
E	starch	fat	protein
F	fat	starch	protein



2006

- 1 The graph shows changes in the mass of glycogen stored in the liver and skeletal muscles.



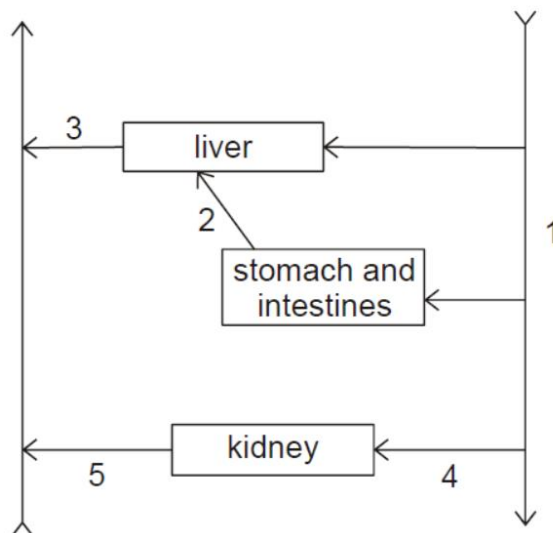
During which periods will the concentration of insulin in the blood be below normal?

- A 1 and 6
- B 2 and 3
- C 2 and 4
- D 3 and 4
- E 3 and 5
- F 4 and 5



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15 The diagram shows part of the circulatory system.



Which row of the table identifies the blood vessels that best fit the descriptions after eating a carbohydrate rich meal?

	concentration of substances in the blood		
	highest concentration of glucose	highest concentration of urea	lowest concentration of oxygen
A	1	5	4
B	5	3	4
C	2	2	3
D	1	5	2
E	2	3	3
F	5	2	2



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2008

- 12 During the breakdown of a solution containing carbohydrates, proteins and lipids by carbohydrase, protease and lipase enzymes, the pH changed from neutral due to the products formed.

Which of the options, **A** to **E**, correctly shows which constituents contribute to the change in pH?

	Carbohydrate	Protein	Lipid
A	yes	yes	yes
B	no	yes	no
C	no	no	yes
D	yes	yes	no
E	no	yes	yes