

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Metabolism Answers

Name:

M M E

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Total Marks: /19

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Q1: Give a definition of metabolism.

A= Sum of all reactions that take place in the body/cell.

(1 mark)

Q2: Explain what enzyme controlled metabolism is.

A= Making/ breaking of molecules

(1 mark)

Q3: Give 3 examples of a metabolic reaction.

A= Accept any 3 of the following:

- Conversion of glucose
- Formulation of lipids
- Protein production
- Respiration
- Photosynthesis
- Breakdown of proteins

(3 marks)

Q4: Give an example of a metabolic reaction with only occurs in plants.

A= Photosynthesis

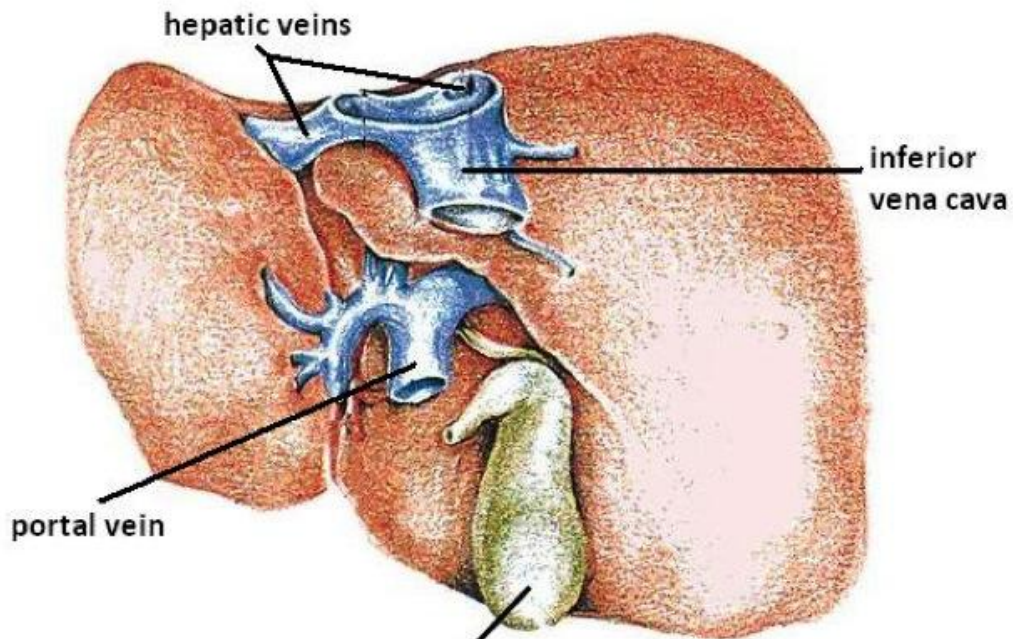
(1 mark)

Q5: Explain the role of the liver.

A= Breakdown/ Purify substances

(1 mark)

Q6: Label the diagram of the liver below.



A= 1 mark for each label

(3 marks)

Q7: Explain the role of the hepatic artery.

A= Brings oxygenated blood to the liver

(1 mark)

Q8: Explain where and how the broken down products of the liver are removed from the body.

A= 1 mark for each of the following:

- Into blood – kidneys
- Excreted in urine

(2 marks)

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Q9: Explain how lactic acid is removed from the body.

A= 1 mark for continuous prose. Accept any 5 of the following:

- Produced by muscles – anaerobic respiration
- Blood transports lactic acid to liver
- Converted back to glucose in liver
- Repays oxygen debt
- Aerobic respiration breaks glucose down if needed
- If not needed converted to glycogen.

(6 marks)