

Respiration past paper questions:

Jan 2002:

- 1 Fig. 1.1 shows the relationship between various metabolic processes.



Fig. 1.1

- (a) (i) Identify the three metabolic processes.

A

B

C [3]

- (ii) State the letter of the pathway in which acetyl coenzyme A is involved.

..... [1]

- (iii) State the letter of the pathway in which ATP is utilised.

..... [1]

In an investigation, mammalian liver cells were homogenised (broken up) and the resulting homogenate centrifuged. Portions containing only nuclei, ribosomes, mitochondria and cytosol (residual cytoplasm) were each isolated. Samples of each portion, and of the complete homogenate, were incubated in four ways.

- 1 with glucose;
- 2 with pyruvate;
- 3 with glucose plus cyanide;
- 4 with pyruvate plus cyanide.

Cyanide inhibits carriers in the electron transport chain, such as cytochromes. After incubation the presence or absence of carbon dioxide and lactate in each sample was determined.

Ocr A2 Biology Past Papers

Christian Drosten



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