



Grade 11 Life Sciences Mobil...

QUESTION 3

3.1 Tabulate any THREE differences between aerobic and anaerobic respiration.

(7)

Hide Answers

3.1

No	AEROBIC RESPIRATION	ANAEROBIC RESPIRATION
1	Breaks down glucose in presence of oxygen. ✓	Breaks down glucose in absence of oxygen. ✓
2	Glucose is completely broken down to CO ₂ and H ₂ O. ✓	Glucose is broken down into alcohol or lactic acid and CO ₂ . ✓
3	Takes place in mitochondria. ✓	Takes place in the cytosol only. ✓
4	The CO ₂ and H ₂ O formed during the process can be excreted. ✓	The alcohol/lactic acid formed during the process accumulate and become poisonous. ✓
5	Releases more energy due to complete breakdown of glucose. ✓	Releases less energy because the glucose is not completely broken down. ✓

1 mark for the table (Any 3 x 2)

(7)

3.2

Study the following table that shows the flow rate and concentration of certain substances taken at regions A, B, C and D of the nephron in the human kidney.

Part of nephron	Flow rate (cm ³ /min)	Solute concentrations (g/100 cm ³)				
		Proteins	Glucose	Sodium ions	Ammonium ions	Urea
A	4	0	0	0,6	0,04	1,80
B	200	0	0,10	0,72	0	0,05
C	40	0	0	0,3	0	0,15
D	2000	7	0,10	0,72	0	0,05

3.2.1 State, with a reason which of the parts (A, B, C or D) of the nephron represent the following:

(a) Afferent arteriole

(2)

(b) Bowman's capsule (Capsular space)

(2)

(c) Loop of Henle

(2)

(d) Duct of Bellini/Collecting duct

(2)

3.2.2 Explain the difference in the flow rate between B and D.

(4)

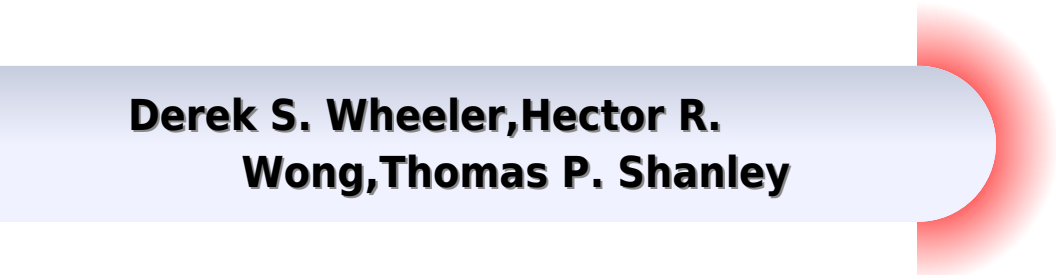
3.2.3 State TWO functions of the kidneys, other than pH regulation, that can be supported by the data given in the table.

(2)

View Answers

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