



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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Velavancorresponding



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Resources in Education ,1994 *Science* John Michels (Journalist),2011 **The Central Nervous System in Pediatric Critical Illness and Injury** Derek S. Wheeler,Hector R. Wong,Thomas P. Shanley,2008-12-23 Neurologic emergencies are a common reason for admission to the pediatric intensive care unit PICU A thorough understanding of the diseases and disorders affecting the pediatric central nervous system is vital for any physician or healthcare provider working in the PICU In the following pages an international panel of experts provides an in depth discussion on the res citation stabilization and ongoing care of the critically ill or injured child with central nervous system dysfunction Once again we would like to dedicate this textbook to our families and to the physicians and nurses who provide steadfast care every day in pediatric intensive care units across the globe Derek S Wheeler Hector R Wong Thomas P Shanley v Preface to Pediatric Critical Care Medicine Basic Science and Clinical Evidence The eld of critical care medicine is growing at a tremendous pace and tremendous advances in the understanding of critical illness have been realized in the last decade My family has directly bene ted from some of the technological and scienti c advances made in the care of critically ill children My son Ryan was born during my third year of medical school By some peculiar happenstance I was nearing completion of a 4 week rotation in the newborn intensive care unit NICU Science News-letter ,1961 **Government Reports Announcements & Index** ,1984 *Research in Education* ,1970 Indian Science Abstracts ,1993 *The Journal of the National Education Association* National Education Association of the United States,1922 *School* ,1928 **U.S. Government Research & Development Reports** ,1970 **U.S. Government Research and Development Reports** ,1970 F & S Index United States Annual ,2005 **Predicasts F & S Index United States** ,1993 A comprehensive index to company and industry information in business journals *Quill & Quire* ,1996

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