FL 5 AAMC MCAT QUESTIONS AND ANSWERS

What is the chemical structure of a component found in four of the five cofactors used by Na+-NQR? - Answer- says it is composed of flavin structure is a nucleotide base structure B could be structure C also could be structure D is an amino acid down between B and C to help, look at the captioned note on the table, it says FI represents flavin which is the redox active center in four of the five cofactors of Na+-NQR C has an uniquinone AND HERE IS IS MENTIONED THAT UNIQUINONE IS IS A SUBSTATE

What is the ratio of cation to enzyme in the spectroelectrochemical experiments described in the passage? - Answer- cation: enzyme passage says Na+NQR was diluted to a final concentration of 0.75 mM in 0.150 molar of the cation ions cation .15 M:

The reaction between NADH and ubiquinone is exergonic, but the reaction, when catalyzed by Na+-NQR, does not generate much heat in vivo. What factor accounts for this difference? - Answer- Conservation of energy, it is not created nor destroyed but merely changes forms

A. Is not possible, Even if it was heat generation would be larger for a catalyzed rection.
C. is impossible, reactants have to be close together to react
The movement of a charged particle against its concentration gradient is energetically costly.

Two open flasks I and II contain different volumes of the same liquid. Suppose that the pressure is measured at a point 10 cm below the surface of the liquid in each container. How will the pressures compare? - Answer- pressure=pgh g=10 p= density (same liquid so same density) h= 10 cm both have same height so pressure will be the same-- if heights were different pressure would be different.

Question
Which of the following substances is polar? - Answer- If there is a net dipole it is polar

Question
If all else is held constant, which of the following changes would NOT double the volume of a gas? - Answer- pv=nrt

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Lingjun Ying

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MCAT Annotated Answers Practice Exam 5 David M. Tarlow,1996-08-01 <u>Underground MCAT Answers</u> Vikas Bhushan,1997 *MCAT Prep Book 2024-2025* Test Treasure Publication,2024-11-18 <u>Cogat(r) Grade 5 Test Prep</u> Nicole Howard,2020-10-10 The Cognitive Abilities Test CogAT is a K 12 evaluation of students reasoning and problem solving abilities through a battery of verbal quantitative and non verbal test questions published by Riverside Insights This book will provide an overview of the different types of questions related to grade 5 level 11 form 7 of the CogAT test and will increase a student s chances of success One complete practice test and the associated answer key with clear explanations are all included in this book to help students better understand the structure of the test and the different question types within it Book Details Grade 5 Level 11 Form 7 One Full Length Practice Test 176 Practice Questions Answer Key Sample Questions for Each Test Area 54 Additional Questions Online

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