

Name \_\_\_\_\_

### Describe the Subject

Based on the following questions from a previous Science Olympiad, I have reviewed the top-scoring responses that follow and assign a score to each. After assigning a score justify the score you gave to each response. Consider explaining what the response included and what it was missing. If the response covered all parts of the question and/or if they response presents accurate or inaccurate content.

Use the following information and graph to answer question 25.

A reading of research in investigating immune response in patients exposed to a specific pathogen. The graph below shows the concentration of a pathogen antibody in the bloodstream produced during the process of acquired immunity. One curve shows the primary immune response (after the first exposure to the pathogen), and the other curve shows the secondary immune response (after the second exposure to the pathogen).

A vaccination serves as the first exposure to a pathogen and triggers the body's primary immune response. Some vaccines contain weakened or inactive pathogens. Other vaccines contain highly similar but nonpathogenic toxins.

Concentration of Antibody in Primary and Secondary Acquired Immune Response



25. Describe two benefits of receiving a vaccine, such as the polio vaccine, in protecting the body against disease, and include data from the graph to support each benefit. Describe in the space provided in your answer document all points.

# Sample Extended Responses Ogt Science Questions

**Andrea J. Lapey**



## **Sample Extended Responses Ogt Science Questions:**

**OGT Reading** Andrea J. Lapey, 2005 OGT Exit Level Reading Workbook prepares students for the reading portion of the Ohio Graduation Test Samples from similar tests provide plenty of practice and students learn to take multiple choice tests on their comprehension of what they read Students learn to evaluate their own short answers to targeted questions and learn from other students responses to similar questions This book is suitable for students in all states who need to take a reading exam for graduation or course completion *30 years old: O-GlcNAc reaches age of reason - Regulation of cell signaling and metabolism by O-GlcNAcylation* Tony Lefebvre, Tarik Issad, 2015-06-10 Hundreds post translational modifications PTM were characterized among which a large variety of glycosylations including O GlcNAcylation Since its discovery O GlcNAcylation has emerged as an unavoidable PTM widespread in the living beings including animal and plant cells protists bacteria and viruses In opposition to N and O glycosylations O GlcNAcylation only consists in the transfer of a single N acetylglucosamine moiety through a beta linkage onto serine and threonine residues of proteins confined within the cytosol the nucleus and the mitochondria The O GlcNAc group is provided by UDP GlcNAc the end product of the hexosamine biosynthetic pathway located at the crossroad of cell metabolisms making O GlcNAcylation a PTM which level tightly reflects nutritional status therefore regulation of cell homeostasis should be intimately correlated to lifestyle and environment Like phosphorylation with which it can compete O GlcNAcylation is reversible This versatility is managed by OGT O GlcNAc transferase that transfers the GlcNAc group and OGA O GlcNAcase that removes it Also like its unsweetened counterpart O GlcNAcylation controls fundamental processes e g protein fate chromatin topology DNA demethylation and as recently revealed circadian clock Deregulation of O GlcNAc dynamism may be involved in the emergence of cancers neuronal and metabolic disorders such as Alzheimer s or diabetes respectively This Research Topic in Frontiers in Endocrinology is the opportunity to celebrate the thirtieth anniversary of the discovery of O GlcNAc by Gerald W Hart

**Transition Planning for Secondary Students with Disabilities** Robert W. Flexer, 2008 For Transition Secondary Special Education and Career Education Vocational Transition courses at the undergraduate and graduate level A comprehensive yet practical text for diverse courses that contribute to the transition process Transition Planning for Secondary Students with Disabilities Third Edition describes the varied transition needs of students with disabilities and the myriad options and career paths potentially available The authors approach to transition is treated in a generalized way by cross categorical practical and real transition examples Redesigned to focus more directly on supporting teachers and professionals in developing and implementing transition activities the revision remains comprehensive and provides broad coverage of transition content ranging from the legislative policy base to specific transition activities More so than in previous editions the third edition content reflects transition issues confronted at the high school level problem solving strategies and updated content that reflects the IDEA transition that presents themes to organize each chapter connecting content across chapters and topics derived from the IDEA

legislation The resulting integration of policy and practice systematically builds the reader's understanding and provides guidelines for daily transition activities Outcomes of transition services across various middle school secondary and postsecondary programs are viewed in the book from the perspective of post school outcomes and quality of life The combined process and outcome analysis will help the reader determine whether transition programs are doing things right and if they are doing the right things

**Scholastic Journalism** C. Dow Tate, Sherri A. Taylor, 2013-09-10 The new 12th edition of Scholastic Journalism is fully revised and updated to encompass the complete range of cross platform multimedia writing and design to bring this classic into the convergence age Incorporates cross platform writing and design into each chapter to bring this classic high school journalism text into the digital age Delves into the collaborative and multimedia new media opportunities and changes that are defining the industry and journalism education as traditional media formats converge with new technologies Continues to educate students on the basic skills of collecting interviewing reporting and writing in journalism Includes a variety of new user friendly features for students and instructors Features updated instructor manual and supporting online resources available at [www.wiley.com/go/scholasticjournalism](http://www.wiley.com/go/scholasticjournalism)

Ask the Science Expert Pam Walker, 2001 The unique format found in Ask the Science Expert turns the students themselves into the expert as they respond to the advice column type questions introducing each science problem Important background information plus pertinent pre lab questions lead students to the necessary data on their own Once the experiment is complete students answer original questions in advice column type response Scientific problem solving and research skills are enhanced while writing skills are improved through the response required for concluding the experiment Answer key provides teacher information sample data tables and probable concluding statements

Sample Test Questions Science, 2009 Text includes examples of the types of questions you may expect to see on an actual test in the Washington Educator Skills Tests Endorsements WEST E The WEST E are tests for educators certification in various subject endorsements in the state of Washington

**Sample Questions in Science at Age 11** Great Britain. Assessment of Performance Unit, Great Britain. Department of Education and Science, 1985\*

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