

IB BIOLOGY HL2 SUMMER ASSIGNMENT

Answer the following on a separate sheet of paper. Use your notes and the following webpages to answer the questions.

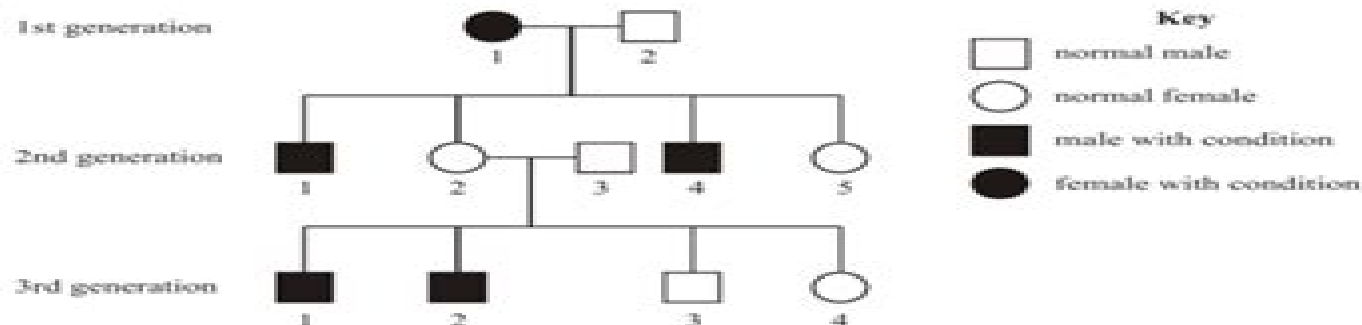
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1. Compare, with the aid of a diagram, the structure of generalized prokaryotic and eukaryotic animal cells. (Total 8 marks)
2. Describe passive transport across a biological membrane. (Total 5 marks)
3. Describe the process of active transport across membranes. (Total 5 marks)
4. Outline the differences between the behavior of the chromosomes in mitosis and meiosis. (Total 5 marks)
5. Draw a diagram of the molecular structure of a portion of DNA. (Total 4 marks)
6. Describe the consequence of a base substitution mutation with regards to sickle cell anemia. (Total 7 marks)
7. Explain the effects of temperature, pH, and substrate concentration on enzyme activity. (Total 8 marks)
8. The diagram below shows the pedigree of a family with red green color-blindness, a sex-linked condition.



- (a) Define the term *sex-linkage*. (1)
- (b) Deduce, with a reason, whether the allele producing the condition is dominant or recessive. (2)

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Xiaolong Qi



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Backpacker, 2001-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

Scientific and Technical Aerospace Reports, 1991 *British Medical Journal*, 1885 **Scientific American**, 1888 Monthly magazine devoted to topics of general scientific interest

Aerospace Medicine and Biology, 1990 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA *Abstracts of the 1971-1974 United States and Foreign Open Literature on Noise* E. P. Bergman, I. B. Fieldhouse, 1976

Popular Mechanics, 1938-05 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

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Cumulated Index Medicus, 1999

School of Education University of Chicago. School of Education, 1908

The Medium and Daybreak, 1884

District of Columbia appropriations for fiscal year 1980 United States. Congress. Senate. Committee on Appropriations. Subcommittee on District of Columbia, 1979

Resilient Planning and Design for Sustainable Cities Francesco Alberti, Paola Gallo, Abraham R. Matamanda, Eric J. Strauss, 2024-04-17 This book discusses a crucial paradigm shift in urban planning and architectural design addressing the urgent need for sustainability and adaptation in the face of rapidly changing climate and urban landscapes Ideal for urban planners architects researchers and policymakers this book weaves together cutting edge research and innovative applications from the 7th edition of the international conference on Urban Planning and Architectural Design for Sustainable Development organized by IEREK in collaboration with the Architecture Department at the University of Florence Italy Through a collection of double blind peer reviewed papers it offers a cohesive narrative emphasizing the vital role of spatial design at all scales Readers will explore diverse case studies from bustling megacities to forgotten villages showcasing the local impacts of global challenges and the efforts to prevent neutralize or mitigate them With an insightful blend of qualitative and quantitative methods the book uncovers the multi functionality of blue green infrastructure the potentials of urban voids and the urgent need for ecological transition Unveiling the gap between current governance instruments and

pressing challenges this book serves as a compass for crafting inclusive livable and environmentally conscious cities and communities The Scottish Farmer ,1924 *Index Medicus* ,2001 *Technical Association of the Pulp and Paper Industry* ,1963 **Current Bibliography of Epidemiology** ,1977 *Research in Education* ,1973 The Journal of Education ,1929 Selected References on Environmental Quality as it Relates to Health ,1976 Monthly Bibliography of MEDLARS based journal articles that describe perturbations in the ecosystems important to health For the most part genetic and clinical literature not included Index medicus format author subject sections

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