

1.1) Compare and contrast prokaryotic and eukaryotic cells.

[4 marks]

Both have a cell membrane/cytoplasm/ribosomes

Eukaryotic Cells are larger

Eukaryotic cells have a nucleus

Eukaryotic cells have membrane-bound organelles

1.2) All cells contain ribosomes. Describe the role of ribosomes.

[1 mark]

Site of protein synthesis

1.3) A sperm cell is an example of a specialised cell.

Outline and explain the features of a sperm cell and how they make the sperm cell adapted to its function.

[5 marks]

Sperm cells have a tail to help them swim.

They have mitochondria in the middle section which allows for respiration so that energy is generated so the cell has energy to swim.

They have a nucleus which contains genetic material.

The sperm cell also has an acrosome which contains digestive enzymes to digest through the egg cell.

They have a streamlined head to help them manoeuvre faster.

[Total marks for question 1 = 10 marks]

Science Predicted Papers

Annelies Wilder-Smith



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Research Paper RMRS ,1998 U.S.D.A. Forest Service Research Paper NC. ,1968 *Journal of Science* ,1867

Scientific Elite , Scientific Elite is about Nobel prize winners and the well defined stratification system in twentieth century science It tracks the careers of all American laureates who won prizes from 1907 until 1972 examining the complex interplay of merit and privilege at each stage of their scientific lives and the creation of the ultra elite in science The study draws on biographical and bibliographical data on laureates who did their prize winning research in the United States and on detailed interviews with forty one of the fifty six laureates living in the United States at the time the study was done Zuckerman finds laureates being successively advantaged as time passes These advantages are producing growing disparities between the elite and other scientists both in performance and in rewards which create and maintain a sharply graded stratification system **General Science & Technology Compendium for IAS Prelims General Studies Paper**

1 & State PSC Exams 3rd Edition Disha Experts, **Trends and Applications in Knowledge Discovery and Data Mining** Jiuyong Li,Longbing Cao,Can Wang,Kay Chen Tan,Bo Liu,Jian Pei,Vincent S. Tseng,2013-08-23 This book constitutes the refereed proceedings at PAKDD Workshops 2013 affiliated with the 17th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD held in Gold Coast Australia in April 2013 The 47 revised full papers presented were carefully reviewed and selected from 92 submissions The workshops affiliated with PAKDD 2013 include Data Mining Applications in Industry and Government DMAPps Data Analytics for Targeted Healthcare DANTH Quality Issues Measures of Interestingness and Evaluation of Data Mining Models QIMIE Biologically Inspired Techniques for Data Mining BDM Constraint Discovery and Application CDA Cloud Service Discovery CloudSD **Scientific and Technical Information**

Resources Krishina Subramanyam,2020-07-24 This book focuses on current practices in scientific and technical communication historical aspects and characteristics and bibliographic control of various forms of scientific and technical literature It integrates the inventory approach for scientific and technical communication *Economic Growth and Societal Collapse* Wim Naudé,2023-11-21 It has been said that in the light of ecological overshoot that human civilization faces two future possibilities a Great Decoupling or a Great Collapse In this book two distinct positions to achieve the Great Decoupling are critically evaluated Green Growth and Degrowth It is concluded that neither Green Growth nor Degrowth will be able to achieve the Great Decoupling The possibility for society to collapse is then raised with the potential for a civilizational rebound pondered Whether collapse may be a feature and not a bug of the long run evolution of complex civilization is discussed This book offers a thought provoking and unique perspective on the economic and ecological challenges faced by modern societies It will be relevant to students researchers and policymakers interested in environmental economics and economic policy *NASA Technical Paper* ,1990 Biographical Encyclopedia of Scientists John Daintith,2008-08-18 This new edition of the highly regarded Biographical Encyclopedia of Scientists focuses on the achievements of 2400 scientists

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