

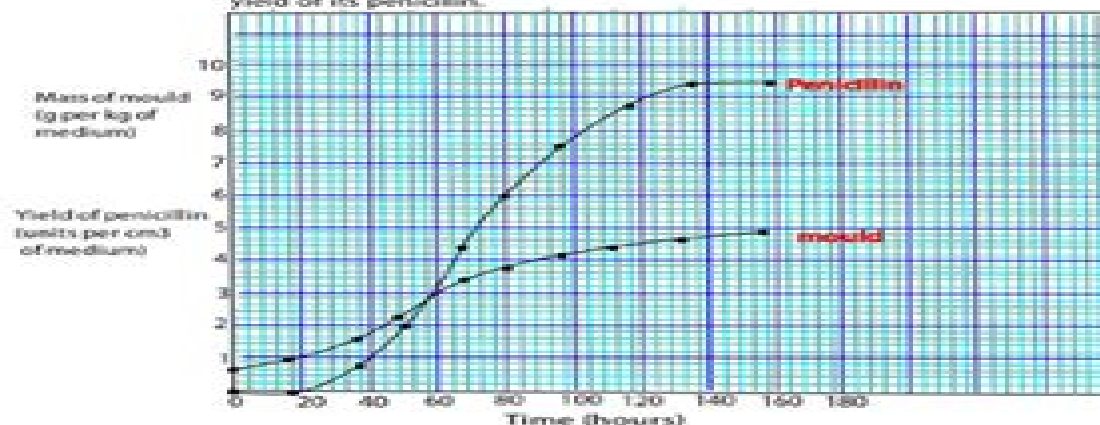
A-level

UACE Biology 2001 paper 2

1. Growth of two micro-organism in a culture media and yield of their products was analyzed. The table below shows the growth of the yeast *saccharomyces* and the yield of its product ethanol.

Time (hours)	Mass of yeast (g per dm ³ of medium)	Yield of ethanol (g per 100cm ³ of medium)
0	1	0.2
2	1.4	0.4
4	2.4	0.6
6	4.2	1.3
8	5.9	2.5
10	6.2	2.8
12	6.1	2.6
14	5.8	2.2

Graph 1 show the growth of the ascomycete mould *Penicillium* and the yield of its penicillin.



Use the data to answer the questions that follow.

- Represent the information in the table graphically (06marks)
Use your graph and graph 1, to answer questions (b) – (f)
- Describe the pattern of growth of the mould and yeast (06marks)
- Give two differences in the growth pattern of mould and yeast (4marks)
- Explain what is happening in the growth of yeast population during each of the following period
 - 0 – 2 hours
 - 4 – 6 hours
 - 8 – 10 hours
 - 12 – 14 hours
- Describe the relationship between the
 - Growth of the mould and the yield of penicillin
 - Growth of yeast and production of ethanol
- State three ways in which the pattern of accumulation of penicillin graph 1 differs from the pattern of

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RS Peters



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Higher Human Biology, Second Edition Clare Marsh, James Simms, Caroline Stevenson, James Torrance, James Fullarton, 2019-06-10 Exam Board SQA Level Higher Subject Human Biology First Teaching August 2018 First Exam June 2019 Ensure that students are prepared for every aspect of Higher Human Biology with the new edition of this popular textbook from James Torrance and his renowned author team completely updated for the 2018 changes to the SQA Higher Human Biology syllabus Suggested learning activities throughout help to develop students knowledge and skills including all new case studies research topics and investigations Testing your knowledge questions at the end of each chapter provide opportunities to continually assess Knowledge and Understanding and are particularly useful for homework tasks What you should know summaries of key facts and concepts provide an excellent source of material for consolidation and revision prior to the SQA examination Applying Your Knowledge and Skills sections at the end of each section have been substantially extended to give students extra practice in exam questions and foster the development of Skills of Scientific Experimentation Investigation and Enquiry

Evolution Education Around the Globe Hasan Deniz, Lisa A. Borgerding, 2018-06-21 This edited book provides a global view on evolution education It describes the state of evolution education in different countries that are representative of geographical regions around the globe such as Eastern Europe Western Europe North Africa South Africa North America South America Middle East Far East South East Asia Australia and New Zealand Studies in evolution education literature can be divided into three main categories a understanding the interrelationships among cognitive affective epistemological and religious factors that are related to peoples views about evolution b designing implementing evaluating evolution education curriculum that reflects contemporary evolution understanding and c reducing antievolutionary attitudes This volume systematically summarizes the evolution education literature across these three categories for each country or geographical region The individual chapters thus include common elements that facilitate a cross cultural meta analysis Written for a primarily academic audience this book provides a much needed common background for future evolution education research across the globe

Implementing Cross-Culture Pedagogies Pham Thi Hong Thanh, 2013-11-27 During the last two decades Confucian heritage culture countries have widely promoted teaching and learning reforms to advance their educational systems To skip the painfully long research stage Confucian heritage culture educators have borrowed Western philosophies and practices with the assumption that what has been done successfully in the West will produce similar outcomes in the East The wide importation of cooperative learning practices to Confucian heritage culture classrooms recently is an example However cooperative learning has been documented in many studies not to work effectively in Confucian heritage culture classrooms The reason is that the educators often impose this instructional method on the students without a careful consideration of its appropriateness in the socio cultural context of Confucian heritage culture countries This procedure is not effective and professional because learning does not stand alone

Rather it is shaped and influenced by other factors including teaching methods learning tasks assessment demands workload and the learning culture of students in the local context For cooperative learning to work effectively in Confucian heritage culture classrooms reformers need to consider the importation of this approach in line with a careful examination of all supports and constraints that affect those factors that are associated with learning The volume provides an applied theoretical framework and culturally appropriate and practical instructions that could assist Confucian heritage culture educators and teachers to address various factors at multiple levels in order to optimize success in importing cooperative learning to their classrooms Overall it provides strategies to assist Confucian heritage culture teachers to change their teaching practices redesign lessons plans design assessment methods and organize learning activities in a manner that can influence Confucian heritage culture students to shift from employing teacher centered learning approaches to cooperative learning

The Oxford Handbook of Economics and Human Biology Dr. John Komlos, Dr. Inas Kelly, 2016-05-02 The Oxford Handbook of Economics and Human Biology provides an extensive and insightful overview of how economic conditions affect human well being and how human health influences economic outcomes Among the topics explored are how variations in height whether over time among different socio economic groups and in different locations are important indicators of changes in economic growth and economic development levels of economic inequality and economic opportunities for individuals The book covers a broad geographic range Africa Latin and North America Asia and Europe Its temporal scope ranges from the late Iron Age to the present Taking advantage of recent improvements in data and economic methods the book also explores how humans biological conditions influence and are influenced by their economic circumstances including poverty Among the issues addressed are how height body mass index BMI and obesity can affect and are affected by productivity wages and wealth How family environment affects health and well being is examined as is the importance of both pre birth and early childhood conditions for subsequent economic outcomes Reflecting this dynamic and expanding area of research the volume shows that well being is a salient aspect of economics and the new toolkit of evidence from biological living standards enhances understanding of industrialization commercialization income distribution the organization of health care social status and the redistributive state affect such human attributes as physical stature weight and the obesity epidemic in historical and contemporary populations

Biology with Human Biology John Addis, 2001 Make the Grade in AS Biology with Human Biology has been specially written to give students comprehensive exam support for senior secondary level Biology and Human Biology It is a comprehensive revision guide for students that includes a bank of activities and questions for use throughout the course with exam questions including synoptic questions to help students fully prepare for examinations

Genetic Ethics Colin Farrelly, 2018-10-22 Colin Farrelly contemplates the various ethical and social quandaries raised by the genetic revolution Recent biomedical advances such as genetic screening gene therapy and genome editing might be used to promote equality of opportunity reproductive freedom healthy aging and the prevention and

treatment of disease But these technologies also raise a host of ethical questions Is the idea of genetically engineering humans a morally objectionable form of eugenics Should parents undergoing IVF be permitted to screen embryos for the sex of their offspring Would it be ethical to alter the rate at which humans age greatly increasing longevity at a time when the human population is already at potentially unsustainable levels Farrelly applies an original virtue ethics framework to assess these and other challenges posed by the genetic revolution Chapters discuss virtue ethics in relation to eugenics infectious and chronic disease evolutionary biology epigenetics happiness reproductive freedom and longevity This fresh approach creates a roadmap for thinking ethically about technological progress that will be of practical use to ethicists and scientists for years to come Accessible in tone and compellingly argued this book is an ideal introduction for students of bioethics applied ethics biomedical sciences and related courses in philosophy and life sciences Higher Grade Human Biology Marking Instructions ,1994

Genetics of Psychological Well-Being Michael Pluess,2015-06-18 In the past decade there has been an explosion of research into the psychology of well being While we know that psychological well being is partly heritable it is only recently that researchers have started to investigate the specific genetic factors that influence well being Such research explores not only heritability based on traditional twin study designs but also includes studies combining some of the most recent molecular genetic techniques and methods This landmark book summarizes the state of knowledge regarding heritability and molecular genetics in positive psychology Divided into four parts it starts by exploring the basics of genetics and associated research methodology providing the reader with the knowledge required to understand the empirical work presented throughout the volume The second part of the book focuses on heritability estimates of the most important positive psychology concepts based on quantitative behavioural genetics studies In the third section of the book results from more recent molecular genetics studies are presented including candidate gene gene environment interaction as well as genome wide association studies This section also contains chapters on epigenetics and imaging genetics both relatively new methodologies that are just about to make their way into the field of positive psychology The fourth and final part of the book discusses more overarching questions regarding the roles of genes and environment in the development of well being as well as a review and discussion of the current state of knowledge and future direction in this new field of inquiry The first book of its kind The Genetics of Psychological well being is a major contribution to the positive psychology literature and important for all those in the fields of positive psychology psychiatric genetics and well being T: The Story of Testosterone, the Hormone that Dominates and Divides Us Carole Hooven,2021-07-13 Through riveting personal stories and the latest research Harvard evolutionary biologist Carole Hooven shows how testosterone drives the behavior of the sexes apart and how understanding the science behind this hormone is empowering for all Since antiquity from the eunuchs in the royal courts of ancient China to the booming market for elixirs of youth in nineteenth century Europe humans have understood that typically masculine behavior depends on testicles the main source of testosterone in males Which sex has the highest rates of physical

violence hunger for status and desire for a high number of sex partners Just follow the testosterone Although we humans can study and reflect on our own behavior we are also animals the products of millions of years of evolution Fascinating research on creatures from chimpanzees to spiny lizards shows how high testosterone helps males out reproduce their competitors And men are no exception While most people agree that sex differences in human behavior exist they disagree about the reasons But the science is clear testosterone is a potent force in human society driving the bodies and behavior of the sexes apart But as Hooven shows in T it does so in concert with genes and culture to produce a vast variety of male and female behavior And crucially the fact that many sex differences are grounded in biology provides no support for restrictive gender norms or patriarchal values In understanding testosterone we better understand ourselves and one another and how we might build a fairer safer society

Dimensions of Human Behavior Elizabeth D. Hutchison, 2018-09-05 Dimensions of Human Behavior The Changing Life Course presents a current and comprehensive examination of human behavior across time using a multidimensional framework Author Elizabeth D Hutchison explores both the predictable and unpredictable changes that can affect human behavior through all the major developmental stages of the life course from conception to very late adulthood Aligned with the 2015 curriculum guidelines set forth by the Council on Social Work Education CSWE the Sixth Edition has been substantially updated with contemporary issues related to gender and sexuality race and ethnicity and social class and disability across the lifespan

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