

SECTION - I**BOTANY**

Q.1. Explain dihybrid cross with suitable example.

[7]

OR

What is bacteriophage? Explain lytic cycle of bacteriophage with suitable diagram.

Q.2. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- (i) Which one of the following is an example of multiple alleles ?
(a) Height in pea plant (b) Hair colour in cattle
(c) Petal colour in four o'clock plant (d) Wing-size in *Drosophila*
- (ii) The harmful radiations absorbed by the ozone layer are _____.
(a) X-rays (b) visible light
(c) Ultraviolet (UV) rays (d) gamma rays
- (iii) The micro-organism used in the production of acetic acid is _____.
(a) *Aspergillus niger* (b) *Rhizopus arrhizus*
(c) *Neurospora gossypii* (d) *Acetobacter aceti*
- (iv) The adenosine triphosphate (ATP) gain during glycolysis, connecting link and Krebs' cycle respectively are _____.
(a) 8, 6, 24 (b) 8, 24, 6 (c) 24, 8, 6 (d) 6, 8, 24
- (v) Guano deposits are rich in _____.
(a) sulphur (b) phosphorus (c) calcium (d) magnesium
- (vi) How many meiotic divisions are required for the formation of 100 seeds ?
(a) 25 (b) 50 (c) 100 (d) 125
- (vii) During fertilisation male gametes are carried by pollen tube. This is called _____.
(a) syngamy (b) siphonogamy (c) mesogamy (d) polygamy

Q.3. (A) Answer in 'ONE' sentence each :

(6) [12]

- (i) Define 'microsporogenesis'.
(ii) Define 'greenhouse effect'.
(iii) Give any 'two' examples of edible mushrooms.
(iv) Name the reactions when α -ketoglutarate is converted to succinyl Co-A in Krebs' cycle.
(v) What is amphimixis?
(vi) Give the role of heterocyst.

Q. 3.(B) Sketch and label ultrastructure of mitochondrion.

(2)

Q. 3.(C) Attempt Any TWO of the following :

(4)

- (i) Give advantages of single cell protein (SCP).
(ii) Explain the concept of primary productivity.
(iii) With the help of suitable diagram define 'bagging' and 'tagging' of flower.
(iv) Give advantages of self pollination.

Q. 4 (A) Attempt Any TWO of the following :

(6) [9]

- (i) A heterozygous tall plant of pea is crossed with a dwarf plant of pea.

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Stem Cell Biology and Regenerative Medicine Charles Durand, Pierre Charbord, 2022-09-01 The study of stem cell biology is under intensive investigations Because stem cells have the unique capability to self renew and differentiate into one or several cell types they play a critical role in development tissue homeostasis and regeneration Stem cells also constitute promising cell candidates for cell therapy The aim of this book is to provide an accurate knowledge on stem cell biology and regenerative medicine This book will cover many topics in the field and is based on seminars given by recognized scientists involved the international master program on stem cell biology at the University Pierre and Marie Curie UPMC in Paris

Lexical Bundles in Native and Non-native Scientific Writing Danica Salazar, 2014-11-15 This book presents an investigation of lexical bundles in native and non nativescientific writing in English whose aim is to produce a frequency derived statistically and qualitatively refined list of the most pedagogically useful lexical bundles in scientific prose one that can be sorted and filtered by frequency key word structure and function and includes contextual information such as variations authentic examples and usage notes The first part of the volumediscusses the creation of this list based on a multimillion word corpus of biomedical research writing and reveals the structure and functions of lexical bundles and their role in effective scientific communication A comparative analysis of a non native corpus highlights non native scientists difficulties inemploying lexical bundles The second part of the volume explores pedagogical applications and provides a series of teaching activities that illustrate how EAP teachers or materials designers can use the list of lexical bundles in their practice

Graduate Programs in the Biological/Biomed Sciences & Health-Related/Med Prof 2015 (Grad 3) Peterson's, 2014-12-16 Peterson's Graduate Programs in the Biological Biomedical Sciences Health Related Medical Professions 2015 contains profiles of 6 750 graduate programs at over 1 200 institutions in the biological biomedical sciences and health related medical professions Informative data profiles are included for 6 750 graduate programs in every available discipline in the biological and biomedical sciences and health related medical professions including facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate program school or department as well as information on faculty research and the college or university Comprehensive directories list programs in this volume as well as others in the graduate series

How Autocrats Seek Power Richard L. Abel, 2024-03-26 Chronicling and analyzing resistance to the threat that autocracy poses to American liberal democracy this book provides the definitive account of the rise of Trump's populist support in 2016 and his failed efforts to nullify the result of the 2020 election This book is about the threat of autocracy which antedated Donald Trump and will persist after he leaves the stage Autocracy negates both liberalism which includes the protection of fundamental rights the rule of law separation of powers and respect for specialist expertise and democracy which requires that the state be responsible to an electorate composed of

all eligible voters by concentrating unconstrained power in a single individual Anticipating defeat in the 2016 election Trump attacked suggestions that he had sought or even benefited from Russian assistance despite the evidence and he made repeated claims of election fraud In 2020 fearful that his mishandling of the pandemic had alienated voters he intensified the allegations of fraud demanding recounts pressuring state legislatures and state election officials advancing bizarre conspiracy theories and finally calling for a massive demonstration urging protesters to march to the Capitol to pressure Congress promising to accompany them But as this book documents Trump's efforts to nullify the result of the 2020 election failed As the courts rejected his numerous challenges state election officials loyally performed their statutory duties the Justice Department found no evidence of fraud and politicians from all sides certified Biden's victory this book traces the many and varied forms of the defense of liberal democracy located within both the state and civil society including law judges government lawyers and private practitioners the media NGOs science and other forms of expertise and civil servants in federal state and local government Evaluating their efficacy the book maintains is vital if as history has repeatedly taught us the price of liberal democracy like that of liberty itself is eternal vigilance This definitive account and analysis of Trumpism and the resistance to it will appeal to scholars students and others with interests in politics populism and the rule of law and more specifically to those concerned with resisting the threat that autocracy poses to liberal democracy

Universities Handbook, 2014 **Sociological Abstracts** Leo P. Chall, 1956 Contains more than 300 000 records covering sociology social work and other social sciences Covers 1963 to the present Updated six times per year *Biology* Odlum and Garner Staff, 2014 Past HSC Papers for Biology Includes past HSC papers and worked solutions for the years 2008 to 2013 This series of past HSC Papers contains Complete copies of HSC examinations with all diagrams graphs photos etc PLUS sample answer booklets for multiple choice and options questions Complete worked answers that would score full marks to all the Core and all options with full explanations for all multiple choice questions Periodic Table Data Sheet Physics Chemistry Formulae Sheet Physics Geological Time Scale Earth Comprehensive guide on how to achieve success in the HSC with essential exam techniques and how to study HSC Examination question by question topic guide Glossary of examination terms

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