

Time : 3 hrs.]**Note :** (1) All questions are compulsory.

(2) Answers to the question in Section - I and Section - II should be written in TWO separate answer books.

(3) Questions from Section - I attempted in the answer book of Section - II and vice-versa will not be assessed / not given any credit.

(4) Draw neat and well labelled diagrams wherever necessary.

(5) Figures to the right indicate full marks.

(6) Answer to every new question must be started on a new page.

SECTION - I**BOTANY****Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question :****[7]**

- (i) A cross used to verify the unknown genotype of F₁ hybrid is a _____ cross.
(a) test (b) back (c) dihybrid (d) monohybrid
- (ii) Appearance of new combinations in F₂ generation in a dihybrid cross proves the law of _____.
(a) dominance (b) segregation
(c) independent assortment (d) purity of gametes
- (iii) A fine powder of recycled modified plastic is known as _____.
(a) polyblend (b) polythene (c) polyester (d) polymer
- (iv) The partially decomposed organic matter is formed by a process called _____.
(a) fragmentation (b) humification (c) mineralization (d) leaching
- (v) Transfer of genetic material into a bacterial cell through a viral vector is known as _____.
(a) transformation (b) transduction (c) transfection (d) translation
- (vi) If the number of chromosomes in an endosperm cell is 27, what will be the chromosome number in the definitive nucleus?
(a) 9 (b) 18 (c) 27 (d) 36
- (vii) Lever mechanism of pollination is observed in _____.
(a) Salvia (b) Jasmine (c) Bougainvillea (d) Butea

Q. 2.(A) Answer in 'one' sentence each :**(6) [12]**

- (i) A pea plant pure for yellow seed colour is crossed with a pea plant pure for green seed colour. In F₁ generation, all pea plants were with yellow seeds. Which law of Mendel is applicable?
- (ii) Name the enzyme responsible for delay in ripening of tomato fruit.
- (iii) Which are the bacteria responsible for converting organic acids into methane?
- (iv) Name the high yielding semi-dwarf varieties of wheat selected and introduced in India in 1963.
- (v) 'Formation of primary endosperm nucleus is called triple fusion'. Give reason.
- (vi) Mention any 'two' ecological services for the benefit of mankind.

Q. 2.(B) Sketch and label 'tubular tower fermenter'.**(2)**

2014 Oct Question Paper Of Biology Hsc

**Silvia Brunelli, Antonella Ellena
Ronchi, Charlotta Boiers, Emanuele
Azzoni**



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Chemokines and Chemokine Receptors in Brain Homeostasis Flavia Trettel, Richard M. Ransohoff, 2015-08-17 Virtually involved in all pathologies that present an inflammatory component it is now evident that in the central nervous system chemokines and chemokine receptors possess pleiotropic properties beyond chemotaxis constitutive brain expression of chemokines and their receptors on endothelial cells but also on neurons and glia suggests a role for such molecules in mediating homeostatic cross talk between cells of the brain perenchyma Cross talk between neurons and glia is determinant to the establishment and maintenance of a brain environment that ensure normal function and in particular glial cells are active players that respond to environmental changes and act for the survival growth differentiation and repair of the nervous tissue in this regard brain endogenous chemokines represent key molecules that play a role in brain development neurogenesis neurotransmission and neuroprotection As important regulators of peripheral immune response chemokines are molecules of the immune system that play a central role in coordinating communication between the nervous and the immune systems in the context of infections and brain injury Indeed in pathological processes resulting from infections brain trauma ischemia and chronic neurodegenerative diseases chemokines represent important neuroinflammatory mediators that drive leucocytes trafficking into the central nervous system facilitating an immune response by targeting cells of the innate and adaptive immune system The third edition of the international conference Chemokines and Chemokine Receptors in the Nervous System held in Rome in October 2013 represented an exciting platform to promote discussion among researchers in different disciplines to understand the role of chemokines in brain homeostasis This Frontiers Research Topic arises from this conference and wants to be an opportunity to further discuss and highlight the importance of brain chemokines as key molecules that not only grant the interplay between the immune and the nervous systems but in addition drive modulatory functions on brain homeostasis orchestrating neurons microglia and astrocytes communication

Systems Biology and the Challenge of Deciphering the Metabolic Mechanisms Underlying Cancer Osbaldo Resendis-Antonio, Christian Diener, 2017-11-23 Since the discovery of the Warburg effect in the 1920s cancer has been tightly associated with the genetic and metabolic state of the cell One of the hallmarks of cancer is the alteration of the cellular metabolism in order to promote proliferation and undermine cellular defense mechanisms such as apoptosis or detection by the immune system However the strategies by which this is achieved in different cancers and sometimes even in different patients of the same cancer is very heterogeneous which hinders the design of general treatment options Recently there has been an ongoing effort to study this phenomenon on a genomic scale in order to understand the causality underlying the disease Hence current omics technologies have contributed to identify and monitor different biological pieces at different biological levels such as genes proteins or metabolites These technological capacities have provided us with vast amounts of clinical data where a single patient may often give rise to various tissue samples each of them being characterized in detail by genomescale data on the

sequence expression proteome and metabolome level Data with such detail poses the imminent problem of extracting meaningful interpretations and translating them into specific treatment options To this purpose Systems Biology provides a set of promising computational tools in order to decipher the mechanisms driving a healthy cell s metabolism into a cancerous one However this enterprise requires bridging the gap between large data resources mathematical analysis and modeling specifically designed to work with the available data This is by no means trivial and requires high levels of communication and adaptation between the experimental and theoretical side of research Fetal/Embryonic

Hematopoietic Progenitors and Their Impact on Adult Diseases Silvia Brunelli,Antonella Ellena Ronchi,Charlotta

Boiers,Emanuele Azzoni,2021-10-01

The 11th Edition of the International Meeting of the SPCE-TC: Advances in Stem Cells and Cell Therapies Susana Solá,Joana Paiva Miranda,2021-09-14 **Biology and Engineering of Stem Cell**

Niches Ajaykumar Vishwakarma,Jeffrey M Karp,2017-03-22 Biology and Engineering of Stem Cell Niches covers a wide spectrum of research and current knowledge on embryonic and adult stem cell niches focusing on the understanding of stem cell niche molecules and signaling mechanisms including cell cell cell matrix interactions The book comprehensively reviews factors regulating stem cell behavior and the corresponding approaches for understanding the subsequent effect of providing the proper matrix molecules mechanical cues and or chemical cues It encompasses a variety of tools and techniques for developing biomaterials based methods to model synthetic stem cell niches in vivo or to enhance and direct stem cell fate in vitro A final section of the book discusses stem cell niche bioengineering strategies and current advances in each tissue type Includes the importance of Cell Cell and Cell Matrix Interactions in each specific tissue and system Authored and edited by authorities in this emerging and multidisciplinary field Includes valuable links to 5 10 minute YouTube author videos that describe main points **Gambling Advertising** Barrie Gunter,2019-04-15 This book critically examines research evidence

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