

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.

Imp Question Of Biology For Hsc 2016

Sabine Zange



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Lou,Wencheng Zhang,Jianjun Zhou,Zhiying He,2022-03-29 *Pericyte Biology in Different Organs* Alexander Birbrair,2019-04-01 The present book is an attempt to describe the most recent developments in the area of pericyte biology which is one of the emergent hot topics in the field of molecular and cellular biology today Here we present a selected collection of thirteen detailed chapters on what we know so far about pericytes in distinct organs in physiological and pathological conditions Further it provides an update on the most novel functions attributed to these cells and will introduce a newer generation of researchers and scientists to the importance of these cells ranging from their discovery in different organs through current state of the science It will be invaluable for both advanced cell biology students as well as researchers in cell biology stem cells and vascular research This volume explores pericytes physiologic roles in different tissues ranging from the pancreas lungs and liver through skeletal muscle gut retina and more Together with its companion volumes *Pericyte Biology in Disease* and *Pericyte Biology Novel Concepts* *Pericyte Biology in Different Organs* presents a

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Organ Development ,2019-02-21 Organ Development Volume 132 the latest release in the Current Topics in Developmental Biology series highlights new advances in the field with this new volume presenting interesting chapter written by an international board of authors This volume highlights cogent reviews of the development maintenance and regeneration repair of several organ systems from eye to kidney to the musculoskeletal system Many reviews highlight new techniques or technologies that are currently pushing the field The role of both embryonic and adult stem cells are highlighted and senior authors are all women scientists Provides the authority and expertise of leading contributors from an international board of author Presents the latest release in this series Updated release includes the latest information on organ development

Microenvironment-Derived Stem Cell Plasticity Jelena Krstic,Marietta Herrmann,Ivana Gadjanski,Slavko Mojsilovic,2017-12-21 Plasticity is the hallmark of stem cells At the same time stem cells like any other cell type are influenced by their microenvironment and respond to it accordingly A specific microenvironment is defined by a variety of factors including biological and chemical factors cell cell interactions but also metabolic and mechanical cues Such dynamic and specialized microenvironment where the stem cells reside is considered a stem cell niche Tissue injury as well as malignant tissue alterations lead to changes in the niche influencing the plasticity and biology of residing stem cells Similarly the niche changes upon tissue damage which eventually induces differentiation of stem cells and ultimately regeneration of the tissue

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

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