

CS/B.PHARM/SEM-1/PTB-101/2012-13

2012

REMEDIAL BIOLOGY

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following :
10 × 1 = 10

- i) The biological name of the sink worm is :
 - a) Caterpillar b) Taenia Solium
 - c) Bombyx Mori d) Hook worm.
- ii) Anopheles mosquito Causes :
 - a) Malaria b) Kalazar
 - c) Filaria d) Dengue.
- iii) The middle fleshy part of a fruit is called :
 - a) Endocarp b) Pericarp
 - c) Mesocarp d) Epicarp.
- iv) Example of Hesperidium fruit is :
 - a) Mango b) Poureganate
 - c) Tourato d) Orange.
- v) Dicot root contains :
 - a) Collateral open vascular bundle
 - b) Radial type
 - c) Collateral closed Vascular bundle
 - d) None of these.

- vi) The site of protein synthesis in Plant cell is
- a) Ribosomes
 - b) Mito chondria
 - c) Eudoplasmic Reticulum
 - d) Golgi bodies.
- vii) The longest mitotic phase is :
- a) Telophase b) Prophase
 - c) Anaphase d) Metaphase.
- viii) 'Ovate' is a term related to :
- a) Anther b) Ovary
 - c) Leaf d) None of these.
- ix) Citrus leaf is a :
- a) Pinnately compound b) Palmately Compound
 - c) Simple d) None of these.
- x) True fruits originates from :
- a) Thalamus, b) Ovary
 - c) Calyx d) Stamen.
- xi) Vector host of Trypanosoma is :
- a) Mosquito b) Fly
 - c) Pig d) Sheep.
- xii) Bast fibre is :
- a) Living b) Non-living
 - c) Metallic d) None of these.
- xiii) Reduction of cell division is another name of :
- a) Amitosis b) Mitosis
 - c) Meiosis d) None of these.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following.

3 × 5 = 15

2. Write the differences between :

a) Eukaryotic cell and prokaryotic cell. $2\frac{1}{2}$

b) Meristematic tissues and Permanent tissues. $2\frac{1}{2}$

3. Write down the characteristic features of protozoa.

4. Discuss the life cycle of :

Taenia Solium.

5. What is leaf ? Mention its function and write down the differences between simple leaf and compound leaf.

1 + 2 + 2

6. Explain the following :

a) Epidermis

b) Parenchyma.

$2\frac{1}{2} \times 2$

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.

3 × 15 = 45

7. a) Explain the morphological Characteristics of Plasmodium vivax.

b) Describe the life cycle of plasmodium in man.

5 + 10

8. a) Give a diagrammatic description of Meiosis cell division
And

b) Differentiate between Xylem and phloem with diagram.

10 + 5

9 a) What is assimilatory root ?

b) Write about the Various modifications of typical tap root.

c) Write down the histological differences between monocot root and dicot root.

3 + 5 + 7

10. a) Write the morphological differences between male and female blood fluke.

b) Write down the life cycle of amoeba.

8 + 7

11. a) What is silk gland ?

b) How silk is produced from the silk worm ?

c) Give the life cycle of silk gland.

4 + 5 + 6

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