



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.Pharm/SEM-1/PTB-101/2011-12**  
**2011**  
**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 pitchers of insectivorous pitcher plant ( *Nepenthes sp.* ) are modified
- |                |                      |
|----------------|----------------------|
| a) Fruit       | b) Adventitious root |
| c) Leaf Lamina | d) Inflorescence.    |
- ii) The stone cells of Guava fruit is an example of
- |                     |                   |
|---------------------|-------------------|
| a) Branchysclereids | b) Colenchyma     |
| c) Parenchyma       | d) None of these. |
- iii) The evolutionary history of any group of organism is termed as
- |              |                 |
|--------------|-----------------|
| a) Taxonomy  | b) Phyllotaxy   |
| c) Phylogeny | d) Phytoalexin. |

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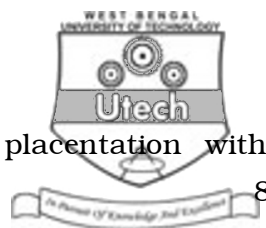
[ Turn over



- iv) Intermediate host of schistosoma is
  - a) mosquito
  - b) fly
  - c) fresh water snail
  - d) pig.
  
- v) Reductiional cell division is another name of
  - a) amitosis
  - b) mitosis
  - c) meiosis
  - d) furrowing.
  
- vi) Cystolith of Indian rubber tree is crystal of
  - a) Silicon dioxide
  - b) Calcium oxalate
  - c) Ferric chloride
  - d) Calcium carbonate.
  
- vii) The filarial parasite is transmitted by
  - a) female anopheles
  - b) male culex
  - c) male anopheles
  - d) female culex.
  
- viii) Mango is an example of
  - a) Drupe
  - b) Berry
  - c) Caryopsis
  - d) Nut.
  
- ix) Signet ring is observed in the life cycle of
  - a) plasmodium
  - b) trypanosoma
  - c) taenia
  - d) ascaris.
  
- x) Orchid is an example of
  - a) Epiphyte
  - b) Saprophyte
  - c) Parasite
  - d) None of these.
  
- xi) Development of fruit without fertilization is called
  - a) Parthenocarpy
  - b) Apogamy
  - c) Hesperidium
  - d) Agamosamy.
  
- xii) Energy is stored in the mitochondria in the form of
  - a) AMP
  - b) Cyclic AMP
  - c) Glucose
  - d) ATP.



CS/B.Pharm/SEM-1/PTB-101/2011-12



- d) Describe briefly different types of placentation with suitable diagram. 8
- e) What do you mean by syncarpous & apocarpous ovary? 2
8. What is Meiosis? Which types of cells participate in this cell division? Give a detail description of Prophase I of Meiosis. Write about cytokinesis of mitotic division of plant cell. 1 + 2 + 9 + 3
9. Write the systematic position of *Plasmodium vivax*. Describe the life cycle of plasmodium in man. 3 x 5
10. Write short notes on the following : 3 x 5
- a) Structure of a silk gland using a neat labelled diagram.
- b) Morphological difference between male and female blood fluke.
- c) Sub-aerial modifications of stem.
11. What is Tap root system? What are the different zones of Tap root system? Write in detail, about modification of roots in respect to their special mechanical function. What is Pneumatophore and Epiphytic root? 1 + 3 + 8 + 3
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