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Invigilator's Signature :	

CS/B.PHAM/SEM-1/PTB-101/2009-10 2009

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 :

 $10 \times 1 = 10$

- i) The thin layer of cytoplasm lining of the vacuole is called
 - a) endoplasm
- b) ectoplasm
- c) tonoplasm
- d) primordial utricle.
- ii) the plastids which are concerned with the storage of food are called
 - a) chromoplasts
- b) chloroplasts
- c) amyloplasts
- d) leucoplasts.
- iii) Type of inflorescence in sunflower is called
 - a) umble

b) capitulum

c) spadix

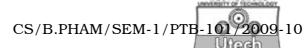
d) catcin.

11020 [Turn over

CS/B.PHAM/SEM-1/PTB-101/2009-10

iv)		sence of flagella is nal under class	the	characteristic feature of	
	a)	Rhizophoda	b)		
	c)	Sporozoa	d)	Ciliophora.	
v)	Vector host of Trypanosoma is				
	a)	mosquito	b)	fly	
	c)	pig	d)	sheep.	
vi)	is a type of modified underground stem.				
	a)	Runner	b)	Sucker	
	c)	Stolon	d)	Rhizome.	
vii)	In which type of vernation, leaf margins touch each other without any overlapping?				
	a)	Valvate	b)	Contorted	
	c)	Imbricate	d)	Equitant.	
viii)	Intermediate host of Schistosoma is				
	a)	Pig	b)	Human being	
	c)	Fresh water snail	d)	Bird.	
ix)	True fruits originates from				
	a)	Thalamus	b)	Calyx	
	c)	Ovary	d)	Stamen.	
x)	Glossina palpalis is the alternating host of the parasite				
	a) Entamoeba histolytica b) Ancylostoma				
	c)	Amoeba	d)	Trypanosoma.	

11020



- xi) The main seat of protein synthesis in plant cell is
 - a) Mitochondria
 - b) Ribosome
 - c) Plasma membrane
 - d) Endoplasmic Reticulum.
- xii) In the life cycle of $Plasmodium\ vivax$ the exoerythrocytic phase occours in
 - a) WBC

- b) RBC
- c) Liver cells
- d) Stomach.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following.

 $3 \times 5 = 15$

- 2. Write the difference between plant and animal cells. What is the difference between endoplasm and ectoplasm? 3+2
- 3. Describe the structure of an organised nucleus. Write down the importance of nucleus in the living organism. 3+2
- 4. Describe the life cycle of Trypanosoma in human body. Name the disease caused by Trypanosoma in human body.

4 + 1

- 5. What do you mean by the artificial, natural and phyllogenetic system of classification?
- 6. What is leaf? Mention its function and write the difference between simple leaf and compound leaf. 1 + 2 + 2

11020 3 [Turn over

CS/B.PHAM/SEM-1/PTB-101/2009-10



(Long Answer Type Questions)

Answer any three of the following.



- 7. Give a vivid description of Meiosis cell division. How does the number of chromosomes remain constant in a species though meiosis is a reduction division? 10 + 5
- 8. Write the difference between the following:
 - a) Dicotyledonous and monocotyledonous plants.
 - b) Meristematic and permanent tissues.
 - c) Plastids and Mitochondria.

5 + 5 + 5

- 9. What is meant by volatinism? Briefly explain the different kinds of volatinism. What are the physical characteristics of cocoon.
- 10. What is inflorescence? What are sessile and pedecillate flowers? Give one example of each. What is the difference between Racemose and Cymose types of inflorescence? Describe spadix and capitulum types of inflorescence with suitable diagram. 2 + 4 + 2 + 3 + 4
- 11. What are the differences between Anopheles and Culex mosquitoes? Describe the life cycle of Anopheles mosquito with labelled diagram. Mention the various preventive measures taken against mosquito proliferation. 4 + 8 + 3

4

11020