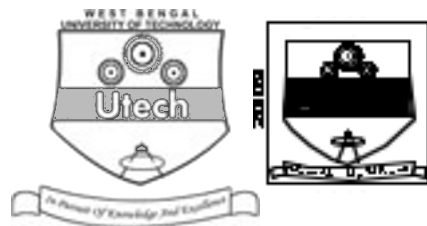


## REMEDIAL BIOLOGY ( SEMESTER - 2 )

CS/B.Pharm (O)/SEM-2/PTB-201/09



1. ....  
Signature of Invigilator

2. ....  
Signature of the Officer-in-Charge

Reg. No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Roll No. of the Candidate

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**CS/B.Pharm (O)/SEM-2/PTB-201/09  
ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2009  
REMEDIAL BIOLOGY ( SEMESTER - 2 )**

Time : 3 Hours ]

[ Full Marks : 70

**INSTRUCTIONS TO THE CANDIDATES :**

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.  
b) For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
9. Rough work, if necessary is to be done in this booklet only and cross it through.

**No additional sheets are to be used and no loose paper will be provided**

**FOR OFFICE USE / EVALUATION ONLY**

Marks Obtained

Group – A

Group – B

Group – C

Question Number																							Total Marks	Examiner's Signature	
Marks Obtained																									

.....  
Head-Examiner/Co-Ordinator/Scrutineer

2331 (11/06) (O)



<http://www.makaut.com/>

**DO NOT WRITE ON THIS PAGE**

2331 (11/06) (O)

<http://www.makaut.com/>



**ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009**  
**REMEDIAL BIOLOGY**  
**SEMESTER – 2**



Time : 3 Hours ]

[ Full Marks : 70

**GROUP – A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10
- i) The disease caused by *Ades aegypti* is
- |            |                  |                          |
|------------|------------------|--------------------------|
| a) Filaria | b) Yellow fever  |                          |
| c) Malaria | d) Dengue fever. | <input type="checkbox"/> |
- ii) *Amoeba* reproduces through binary fission when
- |                                 |                      |                          |
|---------------------------------|----------------------|--------------------------|
| a) availability of food maximum | b) scarcity of food  |                          |
| c) all conditions unfavourable  | d) humidity is less. | <input type="checkbox"/> |
- iii) The most common vector of the disease 'sleeping sickness' is
- |                           |                                 |                          |
|---------------------------|---------------------------------|--------------------------|
| a) <i>Musca domestica</i> | b) <i>Anopheles stephensoni</i> |                          |
| c) <i>Glossina</i> sp.    | d) <i>Culex fatigans</i> .      | <input type="checkbox"/> |
- iv) The process of exchange of chromatin materials between homologous chromosomes is called
- |           |                   |                          |
|-----------|-------------------|--------------------------|
| a) tetrad | b) synapsis       |                          |
| c) diad   | d) crossing over. | <input type="checkbox"/> |
- v) Which of the following is known as 'Hookworms' ?
- |                       |                           |                          |
|-----------------------|---------------------------|--------------------------|
| a) <i>Ascaris</i> sp. | b) <i>Oxyuris</i> sp.     |                          |
| c) <i>Taenia</i> sp.  | d) <i>Ankylostoma</i> sp. | <input type="checkbox"/> |
- vi) An example of a bulb is
- |           |            |                          |
|-----------|------------|--------------------------|
| a) potato | b) ginger  |                          |
| c) onion  | d) garlic. | <input type="checkbox"/> |

**2331 (11/06) (O)**



vii) The smaller subunit of ribosome in case of Eukaryotes are

- a) 70s
- b) 80s
- c) 40s
- d) 30s.




viii) What is Androecium ?

- a) Male part of a flower
- b) Female part of a flower
- c) Outermost whorl of flower
- d) Calyx.

ix) Which of the following is an underground shoot ?

- a) Bulb
- b) Root
- c) Corm
- d) Rhizome.

x) What do you mean by Gummosis ?

- a) Production of gums
- b) Production of mucilage
- c) Production of resins
- d) none of these.

xi) What colour occurs when iodine is added to starch ?

- a) colourless
- b) blue colour
- c) pink colour
- d) red /pink colour.

xii) Alga & fungus living together and mutually helping each other is known as

- a) lichen
- b) fungus
- c) moss
- d) autotrophism.

<http://www.makaut.com/>

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following questions.

3 × 5 = 15

2. Describe the life cycle of silk-moth.
3. Classify roots on the basis of modifications to carry on special mechanical functions.
4. Write short notes on structure and functions of the following cell organelles :

Chloroplast, Ribosome



5. Draw a neat labelled diagram of a plant cell and write the function of Mitochondria and cell wall. 3 + 1 + 1
6. What do you mean by ergastic substances ? Classify them with examples and explain any one of them briefly. 1 + 2 + 2



### GROUP – C

#### ( Long Answer Type Questions )

Answer any *three* of the following questions.

3 × 15 = 45

7. a) Distinguish between Karyokinesis and Cytokinesis. 4
- b) Why is mitosis called equational division ? 3
- c) Discuss with suitable diagrams the first meiotic prophase in any animal. 8
8. a) Name and place a dangerous parasitic roundworm of human being in their respective phylum mentioning three features. 3
- b) Describe briefly the morphology and life cycle of this parasite. 3 + 9
9. a) What do you mean by open and closed vascular bundles ? Describe the method of formation of bark in higher plant. Give the composition of periderm. 2 + 2 + 2
- b) Distinguish heart wood and sapwood. What is annual ring ? What is ring porous wood and diffuse porous wood ? 3 + 3 + 3
10. Explain the various methods of classification of plants with examples. 15
11. a) Explain the different parts of a housefly with neat labelled diagram.
- b) Differentiate the life cycle of culex and anopheles mosquitoes with diagram. 6 + 9

=====  
END