

B TECH
(SEM II) THEORY EXAMINATION 2017-18
REMEDIAL BIOLOGY II

(Time: 3 Hours)

(Total marks: 70)

SECTION – A

Note: Attempt all parts. All parts carry equal marks.

[2x7=14]

- a) Define Evolution
- b) Mention various function of body fluid.
- c) Differentiate Inspiration and Expiration.
- d) Give the name of two Sexually transmitted diseases.
- e) What do you understand by the term Immunology?
- f) Define Chemical coordination.
- g) What do you understand by the term Vital Capacity?

SECTION – B

Note: Attempt any 3 parts. All parts carry equal marks.

[3x7=21]

- a) Differentiate between Gram Positive and Gram Negative bacteria.
- b) Give an account on the history of Microbiology.
- c) What are the various types of microorganisms? Differentiate between them.
- d) Describe the Electron Transport Chain.
- e) Write short notes on Population and Birth Control.

SECTION – C

Note: Attempt all parts. All parts carry equal marks.

1. Attempt any one part**(07 marks)**

- a) Give a brief note on domain bacteria.
- b) Differentiate between proteobacteria and non-proteobacteria.

2. Attempt any one part**(07 marks)**

- a) Give a detailed note on Protozoa and Helminthes.
- b) Explain the role of microorganisms in the production of industrial chemicals.

3. Attempt any one part**(07 marks)**

- a) Differentiate between Prokaryotic and Eukaryotic cell.
- b) What is the basic structure and function of cells?

4. Attempt any one part.**(07 marks)**

- a) Write about the basic shape, size and arrangement of a bacterial cell. Explain with the help of a diagram.
- b) What do you understand by the word “metabolism”? Explain the various types of metabolic reactions involved.

5. Attempt any one part.**(07 marks)**

- a) Discuss carbohydrate metabolism. Also write about the enzymes involved in this reaction.
- b) What is the role of microorganisms in pharmaceutical industries?