Printed Pages:01 **Sub Code: KBT-202**

Paper Id: 900068 **Roll No.** | | | | | | | | | | |

B TECH

(SEM-II) THEORY EXAMINATION 2018-19

REMEDIAL BIOLOGY-II

Time: 3 Hours ***Total Marks: 100***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 10 = 20

a. What do you understand by the term immunology?
b. Define microbiology with some examples.
c. Give the name of two sexually transmitted disease.
d. Write down the two differences between the prokaryotes and eukaryotes cells.
e. What do you understand by population and birth control?
f. What do you understand by the domain bacteria?
g. Write down the two functions of mitochondria.
h. What is kreb cycle?
i. Write down the two differences between the plant cell and animal cell.
j. what is gram +ve and gram-ve bacteria?

SECTION B

2. Attempt any *three* of the following: 3x10 = 30

a. What are the various types of microorganism? Differentiate between them.
b. Write short notes on population and birth control.
c. Give an account on history of microbiology.
d. Describe the Electron transport chain.
e. Describe the functional anatomy of prokaryotic and eukaryotic cells.

SECTION C

3. Attempt any *one* part of the following: 1x10 = 10

a. Give a brief note on domain bacteria.
b. Give a detailed note on protozoa and helminthes.

4. Attempt any *one* part of the following: 1x10 = 10

a. Differentiate between a proteobacteria and nonproteobacteria.
b. What is the basic structure and function of cells?

5. Attempt any *one* part of the following: 1x10 = 10

a. Explain the role of microorganism in the production of pharmaceuticals with one example.
b. What do you understand by the word metabolism? Explain the various types of metabolic reaction involved.

6. Attempt any *one* part of the following: 1x10 = 10

a. Write about the basic size, shape and arrangement of bacterial cell. Explain with the help of diagram.
b. Differentiate between the prokaryotic and eukaryotic cells.

7. Attempt any *one* part of the following: 1x10 = 10

a. Differentiate between the catabolic and anabolic enzymes. Explain the pathways of energy use.
b. Describe the citric acid cycle with neat and sketch diagram.