

TDC Even Semester Exam., 2019

BIOTECHNOLOGY

(Pass)

(2nd Semester)

Course No. : BTCP-201

(Microbiology, Biostatistics and Bioinformatics)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

1. Who is regarded as the father of microbiology? Describe Pasteur's experiment disapproving spontaneous generation theory. 1+6=7

OR

2. Define sterilization. Describe various methods of sterilization. 1+6=7
3. Define viruses. Name some plant viruses. Give a detailed account of bacteriophage. 1+2+4=7

OR

4. Define cocci and bacilli. Give an illustrated account of mycoplasma. 2+5=7
5. Write notes on the following : 3½×2=7
(a) Symbiosis and antibiosis
(b) Economic importance of bacteria

OR

6. Describe strain improvement strategies using enrichment, selection and recombinant DNA technology. 2+2+3=7
7. Write notes on the following : 3½×2=7
(a) Primary data
(b) Median

OR

8. Define probability. Write about conditional event. Describe addition and multiplication theorem. 1+2+4=7
9. Point out the scope of bioinformatics. Describe metabolic pathway engineering. 2+5=7

OR

10. Define proteomics. Give a detailed account of drug target identification. 2+5=7

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