

TDC Even Semester Exam., 2019

BIOTECHNOLOGY

(Honours)

(2nd Semester)

Course No. : BTCH-203

(Microbiology—II)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

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

Answer **all** questions

1. What is Gram's staining? Give three differences between Gram positive and Gram negative bacteria. Give two examples of Gram positive and two of Gram negative organisms. 2+3+2=7

OR

2. What is single-cell protein? Describe briefly commercial preparation of single-cell protein. 2+5=7

3. Write short notes on any *two* of the following : 3½×2=7
- (a) Mycotoxin
(b) Biocontrol
(c) Bioremediation
(d) Brown spot disease of rice
4. Write a note on any *one* of the following : 7
- (a) Viral diseases of humans
(b) Fungal diseases of humans

5. Write a note on commercial production of lactic acid. 7

OR

6. What is fermentation? What is a fermentor? Describe briefly two different types of fermentor with diagram. 1+1+2½+2½=7
7. Write a note on strain improvement by enrichment, selection and recombinant DNA technology. 7

OR

8. What are antibiotics? What is antibiosis? Describe briefly production of antibiotics on commercial scale. 1+1+5=7

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