

C 62654

Name.....

Reg. No.....

SECOND SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, MAY 2019

B.Sc. Biotechnology

BTY 2C 07—ENVIRONMENTAL BIOTECHNOLOGY

Time : Two Hours

Maximum : 40 Marks

Section A

Answer any one question out of two questions in about 1,500 words.

The question carries 10 marks.

1. What are the physico-chemical and biological characteristics of domestic effluents ?
2. What are the biological treatment processes for waste water purification ?

(1 × 10 = 10 marks)

Section B

Answer any three out of five questions in about 1,000 words.

Each question carries 5 marks.

3. Explain the test method of BOD determination.
4. What are the forms of nitrogen in waste water ? How are they removed ?
5. What are the primary treatment processes in waste water treatment ?
6. What are the treatment methods using aquatic plants ?
7. Explain the tests in bacteriological analysis of water.

(3 × 5 = 15 marks)

Section C

Answer all five questions in about 500 words.

Each question carries 3 marks.

8. What are anaerobic waste water treatment systems ?
9. Write a note on stabilisation ponds.
10. What are the important factors to be considered for treatment of industrial waste water ?
11. What are packed column reactors ?
12. What are the processes in sludge treatment ?

(5 × 3 = 15 marks)