



K21U 1538

Reg. No. :

Name :

**V Semester B.Sc. Degree (CBCSS – Sup./Imp.) Examination,
November 2021**

(2015 – '18 Admns)

CORE COURSE IN MICROBIOLOGY

5B07MCB : Microbial Biotechnology

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** the **four** questions.

1. Whey is byproduct from _____ industry.
2. Organism used for the industrial production of citric acid is _____.
3. _____ is the precursor used in the production of vitamin B₁₂.
4. Beet molasses are deficient in _____.

(4×1=4)

SECTION – B

Answer very briefly on **any seven** questions out of ten.

Comment on the following.

5. Corn steep liquor
6. Hops
7. Precursors
8. Cry protein
9. Vinegar
10. Invertase

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11. Sparger
12. Acetone-butanol production
13. Antifoams
14. Plate and frame filters.

(7×2=14)

SECTION – C

Answer **any four** questions out of six briefly.

15. Baculoviruses
16. Biosensors
17. Beer production
18. Molasses
19. Vitamin B₁₂
20. Giant colony technique.

(4×3=12)

SECTION – D

Answer **any two** questions out of four.

21. With the help of a diagram, explain the design and parts of a fermentor.
22. Write an essay on fermentation media.
23. What is strain improvement ? Explain different methods used for strain improvement.
24. What are Bioinsecticides ? Explain with examples.

(2×5=10)
