

D 11703

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Name

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE (SUPPLEMENTARY/IMPROVEMENT)
EXAMINATION, NOVEMBER 2016**

(UG—CCSS)

Microbiology

MB 5B 08—MICROBIAL PHYSIOLOGY

Time : Three Hours

Maximum : 30 Weightage

Section A

Answer all the twelve questions.

1. Write an example for Bacterial Growth factor.
2. McIntosh – Fildes method is used for cultivation of _____
3. Give an example for chemoautotrophic bacteria
4. The transport of molecules against a concentration gradient, with the use of metabolic energy input is called _____
5. Give an example for halophilic bacteria.
6. _____ is the low molecular weight substance, able to complex with ferric ion and supply to cell.
7. Name one Photosynthetic pigment present in bacteria.
8. _____ is the cellular currency.
9. The generation time of *E.coli* is _____
10. Cell division in bacteria takes place mainly by _____
11. *Bacillus stearothermophilus* is _____ used as an _____
12. Heterotrophs use _____ as carbon source _____

(12 x = 3 weightage)

Section B

*Answer all the **nine** questions in one **or** two sentences.*

13. Plaque.
14. Barophiles.
15. Phototroph.

Turn over

16. Anoxygenic photosynthesis.
17. Microaerophiles.
18. Carotinoids.
19. Group translocation.
20. Generation time.
21. Dark reaction.

(9 x 1 = 9 weightage)

Section C

*Answer briefly any **five** questions.*

22. Nutritional groups of microbes.
23. Synchronous culture.
24. Bacterial Pure culture techniques.
25. Measurements of bacterial growth.
26. Transport of nutrients in bacteria.
27. Quantitative viral assay.
28. Non cyclic photophosphorylation.

(5 x 2 = 10 weightage)

Section D

*Answer any **two** questions.*

29. Give an account on anaerobic culture methods of bacteria
30. Explain the mechanism of bacterial photosynthesis.
31. Bacterial growth curve.

(2 x 4 = 8 weightage)