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Name:

Reg. No.

**FIFTH SEMESTER B.Sc. DEGREE (CCSS) EXAMINATION
NOVEMBER, 2011**

Microbiology – Core Course

MB5B08 – Microbial Physiology

Time: Three hours

Maximum weightage : 30

Section A (Answer all the 12 questions)

1. Name two chemoautotrophic bacteria
2. The carbon source of photoautotrophs is
3. The generation time of *E.coli* is
4. is known as cellular currency.
5. Name the photosynthetic pigments in bacteria
6. Energy source of chemolithotrophs is
7. Name two halophilic bacteria
8. *Bacillus stearothermophilus* is a bacterium
9. Name the device used for the cultivation of anaerobes
10. Sporulation in bacteria occurs in phase
11. The methods of transport of nutrients in bacteria are
12. In continuous cell cultures cells are used for the viral cultivation (12X1/4=3)

Section B (Answer all the 9 questions in one or two sentences)

13. Phototroph
14. Halophiles
15. Generation time
16. Bacteriophage
17. Anaerobes
18. Thermotolerants

19. Bacteriochlorophyll

20. Plaque

21. ATP (9X1=9)

Section C (Answer briefly any 5 questions)

22. Cultivation of bacterial viruses

23. Nutritional groups of microbes

24. Calvin cycle

25. Synchronous culture

26. Measurement of bacterial growth

27. Methods of reproduction in bacteria

28. Anaerobic culture methods (5X2=10)

Section D (Answer any 2 questions in detail)

29. Photosynthesis in bacteria

30. Bacterial growth curve

31. Factors affecting microbial growth (2X4=8)