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Name:

Reg. No .

FIFTH SEMESTER B.Sc. DEGREE (CCSS) EXAMINATION, NOVEMBER 2011
MICROBIOLOGY – CORE COURSE

MB5 B14 – ENVIRONMENTAL AND SANITATION MICROBIOLOGY

Time : 3 Hours

Maximum : 30 Weightage

Section A (Answer all the 12 questions)

1. Name two air borne pathogens
2. *E.coli* is an indicator of pollution
3. Man- made pollutants resistant to biodegradation are called
4. Which Gram negative bacillus is much effective in the **bioremediation** of oil spills?
5. Name 2 **methanogenic** bacteria
6. Organisms producing methane are called
7. Name 2 positive interactions of microbes.
8. What is mineralization?
9. What is the full form of PCB?
10. Land filling is a method of management.
11. Write the full form of COD.
12. What is **synergism**? (12X¹/₄=3)

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

13. **Biomagnification**
14. Lithosphere
15. Droplet nuclei
16. **Vermicomposting**
17. **Bioventing**
18. Symbiosis

19. BOO

20. Metal corrosion

21. Biogas

(9X1=9)

Section C (Answer briefly any 5 questions)

22. Sulfur cycle

23. Bioremediation

24. Plant microbe interactions

25. Microbial antagonism

26. Methanogenesis

27. Air sampling techniques

28. Microbial leaching

(5X2=10)

Section D (Answer any 2 questions in detail)

29. Solid waste management

30. Biodegradation of petroleum hydrocarbons

31. Water purification procedures

(2X4=8)