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G – 1601

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, April 2019
(Career Related First Degree Programme under CBCSS)

Group 2(a) : Botany & Biotechnology

BB 1672 : ENVIRONMENTAL BIOTECHNOLOGY

(2015 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** the questions in a word or **one** or **two** sentences. **Each** question carries **one** mark.
(1×10=10 Marks)

1. Mycoremediation.
2. Name the Oil eating superbug.
3. Which year Indian Forest Act came into force ?
4. What is COD ?
5. Define Lithosphere.
6. What is limnetic zone ?
7. Name any two hydrogen producing bacteria.
8. Define eutrophication.
9. Name any two plants that can be used for biodiesel production.
10. Name an organism used for bioaccumulation of metals.

SECTION – B

Answer **any 8** questions. **Each** question carries **2** marks. (answer **not** to exceed **one** paragraph).
(2×8=16 Marks)

11. How do you determine BOD of a particular water sample ?
12. What are the different layers of atmosphere ?

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13. What is meant by sewage ?
14. Define Bioethanol.
15. What is Bioleaching ? Name any two microbes used for bioleaching.
16. Importance of Jojoba.
17. What are the causes of soil pollution ?
18. Bioinsecticides.
19. Give notes on vegetable oils used as engine oils.
20. Biomineralisation. Give example.
21. Write a short note on EPA.
22. Mention any two Nitrogen fixing bacteria and its uses.

SECTION – C

Answer **any 6** questions. **Each** question carries **4** marks. (Answer **not** to exceed **120** words). **(4×6=24 Marks)**

23. Explain the utility of vermicompost technique.
24. Define Gasohol.
25. Give a brief account on Bioaugmentation.
26. Write a short note on water pollutants.
27. Give some examples of biotechnological solution to reduce pollution.
28. Briefly discuss the major points covered under water act.
29. Discuss how the household wastes can be managed for better environment and energy production.
30. Importance of 'recycling' of materials.
31. Differentiate between renewable and non renewable energy sources. Give examples.



SECTION – D

Answer **any 2** questions. **Each** question carries **15** marks. (Answer **not** to exceed **three** pages).
(2×15=30 Marks)

32. Write a detailed account on the treatment of municipal wastes to manage water pollution.
 33. Define biomass. Describe how it can be used of production of energy.
 34. Describe the causes and effects of air pollution.
 35. Write an essay on Bioremediation.
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