Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020

Course Name - Environmental and agriculture microbiology
Course Code - MMB202

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- Dip.CE
- Dip.ME
- MCA
- M.SC.(CS)

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- M.SC.(BT)
- M.TECH(CSE)
- LLM
- M.A.(JMC)
- M.A.(ENG)
- M.SC.(MATH)
- M.SC.(MB)

Answer all the questions. Each question carry one mark.

9. 1. What are the different types of microorganisms present in the air?

Mark only one oval.

- Virus
- Fungi
- Bacteria
- All these

10. 2. Indicator organism for monitoring sanitary quality of water:

Mark only one oval.

- E. coli
- Enterobacter aerogenes
- Klesbiella pneumoniae
- All of these

11. 3. Molecular techniques for water quality assessment

Mark only one oval.

- 6s rRNA of food contaminant
- Gene targeted primers for coliforms
- Both 6s rRNA of food contaminant and gene targeted primers for coliforms
- None of these

12. 4.Aerobic sewage treatment comprises of

Mark only one oval.

- Oxidation lakes
- Trickling Filter
- Septic tank
- None of these

13. 5. Steps of anaerobic sludge treatment include

Mark only one oval.

- Fermentation of sludge
- Methanogenesis
- Production of methaogenic substrate
- All of these

14. 6. E-horizon of soil layer consists of

Mark only one oval.

- Mineral
- Organic compounds
- Clay particles
- Bedrock materials

15. 7.Product of methanogenesis is

Mark only one oval.

- Acetate
- Carbon dioxide
- Hydrogen
- All of these

16. 8. Region of the phyllosphere surrounding stem is

Mark only one oval.

- Caulosphere
- Phyllosphere
- Anthosphere
- Carposphere

17. 9. Ascomycetes degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

18. 10. Chemical properties of soil are

Mark only one oval.

- pH
- Cation exchange capacity
- Both pH and cation exchange capacity
- None of these

19. 11. Size of silt particles ranges between

Mark only one oval.

- <2-0.05 mm
- 0.05 - 0.002 mm
- <0.002 mm
- All of these

20. 12. Optimum pH of soil for plant growth

Mark only one oval.

- 5.8 - 6.5
- 6 - 6.8
- 6.5 - 7.00
- 6.8 - 7.5

21. 13. Myceliophora thermophila degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

22. 14. Enumeration of microbes is done by

Mark only one oval.

- MPN
- PA test
- Membrane filtration technique
- All of these

23. 15. Example of hydrophobic biopolymer

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

24. 16.Region of phyllosphere surrounding flower is

Mark only one oval.

- Caulosphere
- Phyllosphere
- Anthosphere
- Carposphere

25. 17. Flavobacterium degrades

Mark only one oval.

- 2,4-D
- DDT
- DDE
- TDE

26. 18. Major component of plant biomass

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

27. 19. Key enzymes of cellulose degradation

Mark only one oval.

- Ectoglucanases
- Endoglucanases
- Endomycanases
- Endodextranases

28. 20. Xylan esterases degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

29. 21. O-acetylgalactoglucomanann degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

30. 22. Acetyl esterase is the degradation end product of

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

31. 23. The end product of aerobic degradation of cellulose

Mark only one oval.

- carbon dioxide
- methane
- water
- All of these

32. 24. Pseudomonas degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

33. 25. Streptomyces degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

34. 26. Industrial nitrogen fixation is accomplished by

Mark only one oval.

- Helmonts process
- Haber process
- Friedel- Crafts reaction
- Reimer Tiemann Reaction

35. 27. One example of free living anaerobic bacteria is

Mark only one oval.

- Azotobactor
- Rhizobium
- Clostridium
- None of these

36. 28. Most of the microbes grow best at

Mark only one oval.

- 6-8
- 6-9
- 6-7.5
- 7-8

37. 29. All the following are free-living N2 fixers except:

Mark only one oval.

- Rhizobium
- Azotobacter
- Rhodospirillum
- Clostridium

38. 30. Which of the following N2 fixers is involved in symbiotic association with legumes forming root nodules?

Mark only one oval.

- Rhizobium
- Azotobacter
- Rhodospirillum
- Clostridium