Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - –Environmental & Agriculture Microbiology
Course Code - MMB202

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- B.SC(IT)-AI
- B.SC.(MSJ)
- Bachelor of Physiotherapy
- B.SC.(AM)
- Dip.CSE
- Dip.ECE
- DIP.EE
- DIP.CE

- DIP.ME
- PGDHM
- MBA
- M.SC.(BT)
- M.TECH(CSE)
- LLM
- M.A.(JMC)
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- M.SC.(MATH)
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- MCA
- M.SC.(MSJ)
- M.SC.(AM)
- M.SC.CS)
- M.SC.(ANCS)
- M.SC.(MM)
- B.A.(Eng)

Answer all the questions. Each question carry one mark.

9. 1. Endoglucanases break

Mark only one oval.

- β-2,4 glycosidic bond
- β-1,2 glycosidic bond
- β-1,4 glycosidic bond
- β-3,4 glycosidic bond

10. 2. ß-glucosidase degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

11. 3. All the following are free-living N2 fixers except:

Mark only one oval.

- Rhizobium
- Azotobacter
- Rhodospirillum
- Clostridium

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

Mark only one oval.

- Rhizobium
- Azotobacter
- Rhodospirillum
- Clostridium

13. 5. What are the major sources of microorganism present in air?

Mark only one oval.

- Air conditioning system
- Humans
- Both Air conditioning system and Humans
- None of these

14. 6. Contamination of surface and subsurface water is done by

Mark only one oval.

- Domestic waste
- Industrial waste
- Atomic waste
- Both Domestic waste and Industrial waste

15. 7.Sanitary quality of water depends upon

Mark only one oval.

- Water temperature
- Sunlight
- Mineral content
- Both a and b

16. 8. Effects of organic pollutants on biota include

Mark only one oval.

- Reduction of available oxygen
- Increase in light availability
- Decrease in turbidity of water
- All of these

17. 9. Concentration of airborne microorganism changes with

Mark only one oval.

- Season
- Duration
- Humidity
- Growth

18. 10.A-horizon of soil layer consist of

Mark only one oval.

- Mineral
- Organic compounds
- Clay particles
- Bedrock materials

19. 11. Factors affecting degradation of organic matter

Mark only one oval.

- Temperature
- Soil mixture
- Nutrients
- All of these

20. 12. Monomeric unit of cellulose

Mark only one oval.

- D-glucose
- D-galactose
- D-dextrose
- None of these

21. 13. Bond present in between monomers of cellulose are

Mark only one oval.

- β-2,4 glycosidic bond
- β-1,2 glycosidic bond
- β-1,4 glycosidic bond
- β-3,4 glycosidic bond

22. 14.Algae in oxidation ponds grow from

Mark only one oval.

- Sunlight
- Carbon dioxide
- Both Sunlight and Carbon dioxide
- None of these

23. 15. Adsorption-biological system is

Mark only one oval.

- Oxidation ponds
- Both a and c
- Septic tank
- None of these

24. 16. Product of methanogenesis

Mark only one oval.

- Acetate
- Carbon dioxide
- Hydrogen
- All of these

25. 17. Toxic levels of elements in soil required to monitor are

Mark only one oval.

- Al
- Se
- Cl
- All of these

26. 18. Region of phyllosphere surrounding stem is

Mark only one oval.

- Caulosphere
- Phyllosphere
- Anthosphere
- Carposphere

27. 19. Product of DDT degradation

Mark only one oval.

- TDE
- DDE
- Both TDE and DDE
- None of these

28. 20. Soil texture is a

Mark only one oval.

- Chemical property
- Physical Property
- Biological property
- None of these

29. 21. Effect of microorganism is less in

Mark only one oval.

- Fresh water
- Marine water
- Stream water
- None of these

30. 22. Size of clay particles ranges between

Mark only one oval.

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

31. 23. Factors affecting decomposition of organic matter

Mark only one oval.

- Soil texture
- Toxic level of elements
- Both Soil texture and Toxic level of elements
- None of these

32. 24.Chaemotium thermophilum degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

33. 25. The example of free living anaerobic bacteria is

Mark only one oval.

- Azotobactor
- Rhizobium
- Clostridium
- None of these

34. 26.Endomananases are degradation end product of

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

35. 27. P-horizon of soil layer consist of

Mark only one oval.

- Mineral
- Organic compounds
- Clay particles
- Bedrock materials

36. 28. Region of phyllosphere surrounding fruit is

Mark only one oval.

- Caulosphere
- Phyllosphere
- Anthosphere
- Carposphere

37. 29. End product of DDT degradation

Mark only one oval.

- carbon dioxide
- water
- Both carbon dioxide and water
- None of these

38. 30.Corneybacterium degrades

Mark only one oval.

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

39. 31.Function of hemicellulose are

Mark only one oval.

- Mechanical strength
- Transpiration
- Transport
- All of these

40. 32. One word for Cellulose, hemicellulose, & lignin is

Mark only one oval.

- Lignocellulose
- Lignohemicellulose
- Celluloselignin
- All of these

41. 33.Most abundant polymer

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

42. 34. Leaf nodules are found in

Mark only one oval.

- Alus
- Dioscoria
- Frankia
- Peas

43. 35. Components of cellulose chains

Mark only one oval.

- elemental fibrils
- microfibrils
- macrofibrils
- All of these

44. 36. β-glucosidase degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

45. 37. 1,4-beta xylosidase degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

46. 38. Ferulic esterases degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

47. 39. α-1-O- methylglucuronidasse degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

48. 40. α-1- arbionfuranosidase degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

49. 41. O-acetyl-4-O-methyl glucuronoxylan degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

50. 42.Endoxylanse are degradationn end product of

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

51. 43. Tα-glucuronidase are degradation end product of

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

52. 44.Anthoceros is associated with,

Mark only one oval.

- Anaebena
- Nostoc
- Oscillatoria
- All of these

53. 45. Clostridium thermocellum degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

54. 46.Streptomyces. Degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

55. 47. White-rot fungi degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

56. 48. Nitrate reductase requires ----- co-Enzyme for converting nitrate to nitrite.

Mark only one oval.

- FADH2.
- FAD
- NADPH+.
- NADH

57. 49. The percentage of nitrogen present in atmosphere

Mark only one oval.

- 0.32
- 0.78
- 0.9
- 0.6

58. 50. Nitrogen is not the components of

Mark only one oval.

- Chlorophyll
- Cytochrome
- Vitamin
- Hormones

59. 51. The molecular weight of nitrogenase

Mark only one oval.

- 79
- 63 kDa
- 111 KDa
- 178 KDa

60. 52. Conversion of NO 2 in to NH 4 requires....electrons

Mark only one oval.

- 7
- 4
- 8
- 6

61. 53.Nitrate reductase contain ---- prosthetic group

Mark only one oval.

- 8
- 2
- 9
- 4

62. 54. The amount of biological nitrogen fixation is

Mark only one oval.

- 0.1
- 0.79
- 0.99
- 0.9

63. 55.Plants cannot absorb molecular N2 in the atmosphere because

Mark only one oval.

- Nitrogen has double bonds making it highly stable
- Abundance in the atmosphere inhibits absorption
- Nitrogen has triple bonds making it highly stable
- None of these

64. 56. All the following are free living N fixers except

Mark only one oval.

- Rhizobium
- Azotobacter
- Rhodospirillum
- Clostridium

65. 57. Anabaena, a N fixer is present in the root pockets of

Mark only one oval.

- Marselia
- Salvinia
- Pistia
- Azolla

66. 58. Splitting of dinitrogen molecule into free nitrogen atom in biological N2 fixation is carried out by

Mark only one oval.

- hydrogenase
- nitrogenase
- dinitrogenase
- nitrate reductase

67. 59. The conversion of amino acids to ammonium by soil decomposers is called

Mark only one oval.

- ammonification
- mineralization
- deamination
- Both ammonification and mineralization

68. 60. To fix one molecule of nitrogen the root nodules of legumes contain a pink pigment which has high affinity for oxygen is

Mark only one oval.

- nod haemoglobin
- leghaemoglobin
- haemoglobin
- Option 4

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