

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

Course Name - –Environmental & Agriculture Microbiology

Course Code - MMB202

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- Bachelor of Pharmacy
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- M.A.(JMC)
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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. β -glucosidase degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

11. 3. All the following are free-living N_2 fixers except:

Mark only one oval.

- Rhizobium
- Azotobacter
- Rhodospirillum
- Clostridium

12. 4. Which of the following N_2 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 a and b
- 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 a and b

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 a and b
- 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 a and b
- 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 a and b
- 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 a and b
- 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- methylglucuronidase degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

48. 40. α -1- arabinofuranosidase 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. Endoxylanase are degradation end product of

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

51. 43. α -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^- into 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 a and b

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
- bacterial haemoglobin

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