

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

Course Name - Environmental Biotechnology

Course Code - BBT603C1C

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Answer all the questions. Each question carry one mark.

9. 1. The term MSW means

*Mark only one oval.*

- Municipal Solid Waste
- Manual Solid Waste
- Municipal Salient Waste
- Municipal Sewage waste

10. 2. MSW) commonly known as:

*Mark only one oval.*

- trash or garbage
- refuse or rubbish
- Both a and b
- None of these

11. 3. Sources Of MSW are

*Mark only one oval.*

- Residential
- Industrial
- Commercial
- All of these

12. 4. Element Of MSW Management are

*Mark only one oval.*

- Collection
- Waste destruction
- Energy Usage
- All of these

13. 5. Characteristic of MSW are

*Mark only one oval.*

- Physical Characteristics
- Chemical Characteristics
- Both a and b
- None of these

14. 6. Physical Characteristic of MSW are

*Mark only one oval.*

- Moisture content
- Density
- Both a and b
- None of these

15. 7. The process of burning waste in large furnaces at high temperature is know as

*Mark only one oval.*

- Burial
- Incineration
- Flamation
- All of these

16. 8. At the end of incineration all

*Mark only one oval.*

- soil
- water
- ash
- All of these

17. 9. The process of waste water treatment are

*Mark only one oval.*

- Primary treatment
- Secondary Treatment
- Tertiary treatment
- All of these

18. 10. Sedimentation is a type of

*Mark only one oval.*

- Primary treatment
- Secondary Treatment
- Tertiary treatment
- All of these

19. 11. Classification of screen include

*Mark only one oval.*

- coarse screens,
- medium screens
- fine screens
- All of these

20. 12. Sedimentation is carried out

*Mark only one oval.*

- Alum
- Ferric chloride,
- Chlorinated copper
- All of these

21. 13. Activated sludge process is a type of

*Mark only one oval.*

- aerobic attached growth systems.
- Anaerobic suspended growth systems
- aerobic suspended growth systems
- None of these



22. 14. Sequencing batch reactor is a type of

*Mark only one oval.*

- aerobic attached growth systems.
- Anaerobic suspended growth systems
- suspended growth systems
- aerobic suspended growth systems

23. 15. Trickling filters is a type of

*Mark only one oval.*

- aerobic attached growth systems.
- Anaerobic suspended growth systems
- aerobic suspended growth systems
- None of these

24. 16. Rotating biological filters is a type of

*Mark only one oval.*

- aerobic attached growth systems.
- aerobic suspended growth systems
- Anaerobic suspended growth systems
- None of these

25. 17. Example of biofertilizers are

*Mark only one oval.*

- Rhizobium
- Cyanobacter
- Both a and b
- None of these

26. 18. Beneficiaries of rhizobium are

*Mark only one oval.*

- Cowpea
- Green gram
- black gram
- All of these

27. 19. Beneficiaries of azotobacter are

*Mark only one oval.*

- mustard
- sunflower
- banana
- All of these

28. 20. Chlorobium is a

*Mark only one oval.*

- Free living aerobic
- Free living anaerobic
- Free living photosynthetic
- Free living chemosynthetic

29. 21. Rhodospseudomonas is a

*Mark only one oval.*

- Free living aerobic
- Free living anaerobic
- Free living photosynthetic
- Free living chemosynthetic

30. 22. Thiobacillus is a

*Mark only one oval.*

- Free living aerobic
- Free living anaerobic
- Free living photosynthetic
- Free living chemosynthetic

31. 23. Types of Rhizobium are

*Mark only one oval.*

- Bradyrhizobium
- Rhizobium
- Both a and b
- None of these

32. 24. Rhizobium are

*Mark only one oval.*

- gram Positive bacteria
- gram negative bacteria
- Both a and b
- None of these

33. 25. Production of VAM requires

*Mark only one oval.*

- Vermiculite
- Perlite
- Potting mixture
- All of these

34. 26. Types of bioremediation are

*Mark only one oval.*

- In-situ bioremediation
- Ex-situ bioremediation
- Both a and b
- None of these

35. 27. Biosparging is a type of

*Mark only one oval.*

- In-situ bioremediation
- Ex-situ bioremediation
- Both a and b
- None of these

36. 28. Bioaugmentation is a type of

*Mark only one oval.*

- In-situ bioremediation
- Ex-situ bioremediation
- Both a and b
- None of these

37. 29. Landfarming is a type of

*Mark only one oval.*

- In-situ bioremediation
- Ex-situ bioremediation
- Both a and b
- None of these

38. 30. Composting is a type of

*Mark only one oval.*

- In-situ bioremediation
- Ex-situ bioremediation
- Both a and b
- None of these

39. 31. Bioremediation of oil spills can be done by

*Mark only one oval.*

- Bioaugmentation
- Biostimulation
- Both a and b
- None of these

40. 32. Oil- degrading bacteria are

*Mark only one oval.*

- Flavobacterium
- Cytophoga
- Pseudomonas
- All of these

41. 33. Some Techniques for cleaning oil

*Mark only one oval.*

- Controlled burning,
- Chemical dispersants,
- high pressure/hot water washing
- All of these

42. 34. Predominant biopolymers are

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

43. 35. CelluloseHemicelluloseLigninAll of these

*Mark only one oval.*

- Lignocellulose
- Lignoemicellulose
- Celluloselignin
- All of these

44. 36. Major component of plant biomass

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

45. 37. Cellulose are

*Mark only one oval.*

- Hydrophilic
- insoluble
- chiral
- All of these



46. 38. Components of cellulose chains

*Mark only one oval.*

- elemental fibrils
- microfibrils
- macrofibrils
- All of these

47. 39. Cellobiohydrolases degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

48. 40.  $\beta$ -glucosidase degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

49. 41. Endo-1,4- beta-xylanases degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

50. 42. Xylan esterases degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

51. 43.P-coumaric esterases degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

52. 44. Ferulic esterases degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

53. 45.  $\alpha$ -1- arabinofuranosidase degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

54. 46. Xylose and mannose are degradation end product of

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

55. 47. O-acetyl-4-O-methyl glucuronoxylan degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

56. 48. Endoxylanase are degradation end product of

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

57. 49. Acetyl esterase are degradation end product of

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

58. 50.  $\alpha$ -glucuronidase are degradation end product of

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

59. 51. Endomananases are degradation end product of

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

60. 52. Endoglucanases breaks

*Mark only one oval.*

- $\beta$ -2,4 glycosidic bond
- $\beta$ -1,2 glycosidic bond
- $\beta$ -1,4 glycosidic bond
- $\beta$ -3,4 glycosidic bond

61. 53. *Trichoderma reesei* degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

62. 54. *Cellulomonas* degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

63. 55. *Streptomyces*. Degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

64. 56. Phanerochaete chrysosporium degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

65. 57. Ascomycetes degrades

*Mark only one oval.*

- Cellulose
- Hemicellulose
- Lignin
- All of these

66. 58. Plants absorb nitrogen in the form of

*Mark only one oval.*

- nitrites (NO<sub>2</sub>)
- nitrates (NO<sub>3</sub>)
- ammonium (NH<sub>4</sub><sup>+</sup>)
- All of these

67. 59. The conversion of nitrogen to ammonia or nitrogenous compounds is called as

*Mark only one oval.*

- Nitrogen assimilation
- Nitrogen fixation
- Denitrification
- Nitrification

68. 60. Example of symbiotic nitrogen fixing cyanobacteria are except

*Mark only one oval.*

- Anthoceros
- Azolla
- Cycas
- Gnetum

69. 61. All the following are free living N fixers except

*Mark only one oval.*

- Rhizobium
- Azotobacter
- Rhodospirillum
- Clostridium



70. 62. Which of the following N fixer is involved in symbiotic association with legumes forming root nodules?

*Mark only one oval.*

- Rhizobium
- Azotobacter
- Rhodospirillum
- Clostridium

71. 63. World Environmental Day' is celebrated every year on

*Mark only one oval.*

- 5th may
- 5th june
- 5th july
- 5th january

72. 64. Which of the following is major Environmental issues in Mining activities?

*Mark only one oval.*

- Water pollution
- Soil Degradation
- Air pollution and Dust
- All the above

73. 65. Sustainable development

*Mark only one oval.*

- Encourages environmentally economic growth
- Discourages environmentally economic growth
- Encourages environmentally harmful and unsustainable forms of economic growth
- All the above

74. 66. Water quality involves measuring the number of colonies of

*Mark only one oval.*

- Cells
- Protozoa
- Chromosomes
- Coliform bacteria

75. 67. BOD stands for

*Mark only one oval.*

- Biotic Oxygen Demand
- Biological Oxidation Demand
- Biological Oxygen Demand
- Biochemical Oxygen Demand

76. 68. Which of the following is the cause of biomagnification?

*Mark only one oval.*

- Eutrophication
- Detergent pollution
- Pesticide pollution
- Industrial pollution

77. 69. Pesticide chloropham is degraded by

*Mark only one oval.*

- Pseudomonas
- Achromobacter
- Flavobacterium
- All of these

78. 70. Aspergillus nidulans degrade

*Mark only one oval.*

- Linurans
- Chloropham
- Simazine
- Atrazine

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