

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

Course Name - –Environmental Microbiology

Course Code - BMBC402

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Answer all the questions. Each question carry one mark.

9. 1. Which of the following problems is not created by noise pollution?

Mark only one oval.

- Diarrhoea
- Hypertension
- Deafness
- Irritation

10. 2. Which is the renewable exhaustible natural energy resource?

Mark only one oval.

- Coal
- Petroleum
- Kerosene
- Biomass

11. 3. In an ecosystem, the energy flow is always

Mark only one oval.

- Always unidirectional
- None
- In any direction
- Always down directional

12. 4. The study of living organisms with the environment is known as _____

Mark only one oval.

- Ecosystem
- Environment
- Community
- Ecology

13. 5. An ecosystem consists of

Mark only one oval.

- Population
- A biotic community
- A population and its non-living elements
- A biotic community and its non-living elements

14. 6. A simple detritus food chain starts with

Mark only one oval.

- green plant
- wastes of organisms and dead organisms
- both green plant & wastes of organisms and dead organisms
- none of these

15. 7. World Environmental Day' is celebrated every year on

Mark only one oval.

- 5th May
- 5th June
- 5th July
- 18th July

16. 8. Eutrophication means

Mark only one oval.

- Water purification
- Neutralization of waste water
- Waste water Treatment process
- Enrichment of plant nutrients in water bodies

17. 9. Organic farming is

Mark only one oval.

- enhancing biodiversity
- promoting soil biological activity
- farming without using pesticides and chemical fertilizers
- all the above

18. 10. A food web consists of

Mark only one oval.

- A portion of food chain
- A set of similar consumers
- Interlocking of food chains
- Producers, consumers and decomposers

19. 11. 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

20. 12. Smog is combination of

Mark only one oval.

- Smoke and snow
- Snow and fog
- Smoke and fog
- All the above

21. 13. The adverse effect of modern agriculture is

Mark only one oval.

- Soil pollution
- Water pollution
- Wastes logging
- All of these

22. 14. Loss of water content through the plants into the atmosphere is called :

Mark only one oval.

- Evaporation
- Vaporization
- Hydraulic cycle
- Transpiration

23. 15. Good example of sedimentary cycle is

Mark only one oval.

- Oxygen cycle
- Sulphur cycle
- Nitrogen cycle
- Phosphorus cycle

24. 16. Water quality involves measuring the number of colonies of

Mark only one oval.

- Cells
- Protozoa
- Chromosomes
- Coliform bacteria

25. 17. Which of the following is the largest sink for carbon dioxide gas?

Mark only one oval.

- Forests
- Oceans
- Ice sheets
- Grasslands

26. 18. Which gas is mainly produced due to incomplete burning of wood?

Mark only one oval.

- CO
- SO₂
- NO₂
- NO₃

27. 19. Which of the following is a liquid form of aerosol?

Mark only one oval.

- Fume
- Dust
- Mist
- Smoke

28. 20. Which of the following leads to a disease called broncho spasm?

Mark only one oval.

SO₂

SO₃

SO₄

CO₂

29. 21. Which of the following air pollution control device has maximum efficiency?

Mark only one oval.

Electrostatic precipitator

Dynamic precipitator

Spray tower

Wet cyclonic scrubber

30. 22. Which of these is NOT a primary pollutant?

Mark only one oval.

Carbon monoxide

Carbon dioxide

Ground level ozone

Oxygen

31. 23. Which of the following are classified as major sources to air pollution?

Mark only one oval.

- Fuel consumption by local citizens
- Sewage treatment plants
- Dry cleaning and laundries
- None of the mentioned

32. 24. BOD stands for

Mark only one oval.

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

33. 25. Itai-itai disease is caused by

Mark only one oval.

- Hg Poisoning
- Cd poisoning
- Pb poisoning
- Cu poisoning

34. 26. Which of the following is the cause of biomagnification?

Mark only one oval.

- Eutrophication
- Detergent pollution
- Pesticide pollution
- Industrial pollution

35. 27. Which of the following mentioned GHGs has the highest atmospheric lifetime?

Mark only one oval.

- Carbon tetrafluoride
- Nitrous oxide
- Methane
- CFC

36. 28. What is the reason for extreme difference in temperatures at day and night in deserts?

Mark only one oval.

- Carbon dioxide concentrations are low in desert regions, therefore heat escapes easily
- Sand has high heat conduction properties
- Lack of moisture leads to escape of heat
- All of the mentioned

37. 29. A moth having a speckled wing, able to blend into its background due to its dark colouration is called

Mark only one oval.

- Industrial melanism
- Adaptation
- Predation
- Evolution

38. 30. Areas that are under the influence of DDT may observe a decline in the population of birds. This is due to the fact that

Mark only one oval.

- Birds stopped laying eggs altogether
- The eggs did not hatch
- Predation of the eggs increased
- None of the above.

39. 31. _____ is an organism used to gauge the quality of an ecosystem.

Mark only one oval.

- Decomposers
- Predator
- Bio-remediator
- Bioindicator

40. 32. Lichens are good bioindicators for

Mark only one oval.

- Environmental radiation
- Water and air pollution
- Soil pollution
- None of the above

41. 33. Who discovered the ozone layer?

Mark only one oval.

- Henri Buisson & Charles Fabry
- Carl Sagan & Charles Fabry
- G.M.B Dobson
- Carl Sagan & G.M.B Dobson

42. 34. _____ is one of the most prevalent hotspots of biodiversity in India

Mark only one oval.

- Himalayas
- Western Ghats
- Ganges
- None

43. 35. Global warming can be controlled by _____

Mark only one oval.

- Reducing solid waste
- Reducing water wastage
- Burning human-generated waste
- Reducing fossil fuel consumption

44. 36. _____ is not generally seen in biodiversity hotspots.

Mark only one oval.

- Endemism
- Species richness
- Loss of diversity
- Lesser interspecific competition

45. 37. _____ is a non-renewable resource

Mark only one oval.

- Crude oil
- Uranium
- Hot spring
- Silica

46. 38. _____ occurs when the death of the last individual in a species occurs

Mark only one oval.

- Adaptation
- Phylogenetic diversity
- Speciation
- Extinction

47. 39. Plant species with a wide range of genetic distribution evolve into a local population known as

Mark only one oval.

- Ecotype
- Population
- Ecosystem
- Biome

48. 40. Which of the following lake zones has phytoplanktons in abundance?

Mark only one oval.

- Littoral zone
- Benthic zone
- Lemnitic zone
- Profoundal zone

49. 41. This is not a biofertilizer

Mark only one oval.

- Agrobacterium
- Nostoc
- Rhizobium
- Mycorrhiza

50. 42. Carbon dioxide is not released in which of the following processes?

Mark only one oval.

- Lactate fermentation
- Alcoholic fermentation
- Aerobic respiration in animals
- Aerobic respiration in plants

51. 43. During which stage of the purification of the sewage water are microbes used?

Mark only one oval.

- Primary treatment
- Secondary treatment
- Tertiary treatment
- Both Primary treatment & Secondary treatment

52. 44. What does high value of BOD(Biochemical Oxygen Demand) indicate

Mark only one oval.

- That water is pure
- that water is less polluted
- that water is highly polluted
- that consumption of organic matter by microbes is higher in the water

53. 45. This group consists of non-renewable organic resources

Mark only one oval.

- Water, air and minerals
- natural gas, oil and coal
- wood, water and natural pastures
- sand, air and clay

54. 46. Which of the following is not an air pollutant?

Mark only one oval.

- Smoke
- Carbon Dioxide
- Nitrogen Gas
- Sulphur Dioxide

55. 47. Burning of fossil fuels:

Mark only one oval.

- decrease greenhouse gases
- increases greenhouse gases
- increased level of oxygen
- Increased level of ethane

56. 48. Soil conservation is the process where

Mark only one oval.

- soil is aerated
- soil is protected against loss
- sterile soil is converted to fertile soil
- soil erosion is allowed

57. 49. At this stage of wastewater treatment, methanogenic microbes are the most significant

Mark only one oval.

- Sludge digestion
- Primary treatment
- Secondary treatment
- Biological oxidation

58. 50. This cleanup approach includes removal of groundwater or soil from its natural setting to permit for bioremediation

Mark only one oval.

- Bioaugmentation
- in situ bioremediation
- ex situ bioremediation
- Phytoremediation

59. 51. Biodiversity loss can lead to everything except this

Mark only one oval.

- increased resistance to the environmental perturbation
- decline in plant production
- increased variability in water use
- increased variability in pest and disease cycle

60. 52. The National aquatic animal of India is

Mark only one oval.

- Sea horse
- River Dolphin
- Blue whale
- Gangetic shark

61. 53. A process using microbes to convert toxic industrial wastes to less toxic or non-toxic compounds is

Mark only one oval.

- Precipitation
- Complement fixation
- Bioconversion
- Bioremediation

62. 54. _____ bacterium can withstand doses of radiation which are several times higher than what human cells can tolerate

Mark only one oval.

- Escherichia coli
- Conus magus
- Deinococcus radiodurans
- Staphylococcus aureus

63. 55. The bioremediation process involving usage of plants to degrade pollutants is

Mark only one oval.

- Composting
- Biopile
- Phytoremediation
- Land farming

64. 56. This is not an indigenous microbe used for bioremediation

Mark only one oval.

- Pseudomonas aeruginosa
- Piscirickettsia salmonis
- Phanerochaete sordida
- E. coli

65. 57. Bioaugmentation involves

Mark only one oval.

- eliminating sludge
- plants usage for bioremediation
- addition of microbes to a cleanup site
- bioventing

66. 58. Key enzymes of cellulose degradation

Mark only one oval.

- Ectoglucanases
- Endoglucanases
- Endomycanases
- Endodextranases

67. 59. β -glucosidase degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

68. 60. Endo-1,4- beta-xylanas degrades

Mark only one oval.

- Cellulose
- Hemicellulose
- Lignin
- All of these

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