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Here are 1000 MCQs on Environmental Science & Engineering (chapterwise) 1. Which of the following statements define Environmental Engineering? a) Creation of procedures and infrastructure for water delivery b) Waste disposal c) Pollution control of various kinds d) All of the mentioned View AnswerAnswer: d Explanation: Environmental engineering entails the creation of procedures and infrastructure for water delivery, waste disposal, and pollution control of various kinds. 2. Among the given engineers, who is known as the first female environmental engineer? a) Ellen Swallow Richards b) Miss Ellen Henrietta c) Catherine Anselm Gleason d) Elsie Eaves View AnswerAnswer: a Explanation: Ellen H. Swallow Richards is best known for pioneering the subject of sanitary engineering. She was one of America's first female professional chemists and the first woman to be accepted by a scientific institution. 3. Which of the following is/are types of pollution that affect the environment? a) Air pollution b) Water pollution c) Land pollution d) All of the mentioned View AnswerAnswer: d Explanation: Environmental contamination comes in three major forms: air pollution, water pollution, and land pollution. Excessive human activity, such as light and noise pollution, or specific pollutants, such as plastic or radioactive material, are all examples of pollution. 4. Which of the following statements define environmental chemistry? a) study of chemical reactions that occur in water, air, land, biological habitats, and human activities b) study of chemical reactions that occur in water, air, land, and biological habitats only c) study of chemical reactions that occur in water, air, and land only d) None of the above View AnswerAnswer: a Explanation: The study of chemical reactions that occur in water, air, land, and biological habitats, as well as the consequences of human activities on them, is known as environmental chemistry. Astrochemistry, atmospheric chemistry, environmental modeling, geochemistry, marine chemistry, and pollution remediation are among the topics covered. 5. Environmental science is defined by which of the following statements? a) study of the interactions between the environment's and humans only b) study of the interactions between the environment's and physical components c) study of the interactions between the environment's and chemical components d) study of the interactions between the environment's physical, chemical, and biological components View AnswerAnswer: d Explanation: Environmental science is the study of the interactions between the environment's physical, chemical, and biological components. 6. Why carbon dioxide is called a greenhouse gas? a) Because they absorb heat b) Because they absorb moisture c) Because they absorb oxygen d) Because they absorb hydrogen View AnswerAnswer: a Explanation: Carbon dioxide, water vapor, methane, ozone, nitrous oxide, and fluorinated gases are examples of greenhouse gases. Because they absorb heat, these molecules in our atmosphere are known as greenhouse gases. 7. Which of the following statements means water vapor? a) Water vapor is the gaseous phase of water b) Water vapor is the liquid phase of water c) Water vapor is the solid phase of water d) All of the mentioned View AnswerAnswer: a Explanation: Water vapor or aqueous vapor is the gaseous phase of water. It is one state of water within the hydrosphere. Water vapor can be produced from the evaporation or boiling of liquid water or from the sublimation of ice. Water vapor is transparent, like most constituents of the atmosphere. 8. Which of the following is a renewable source of energy? a) Ocean currents b) Solar energy c) Biomass d) All of the above View AnswerAnswer: d Explanation: Solar energy, wind, falling water, the earth's heat (geothermal), plant materials (biomass), waves, ocean currents, temperature differences in the oceans, and the energy of the tides are all renewable resources. 9. Which is the first zone of purification in a sand bed? a) Heterotrophic zone b) Schmutzdecke zone c) Electrolytic zone d) Autotrophic zone View AnswerAnswer: b Explanation: Schmutzdecke zone is the first zone of purification in a sand bed. It comes under the biological action of filtration. Schmutzdecke is known as the surface coating. 10. What does the phrase "anthropogenic CO2 emissions" mean? a) Natural CO2 emissions b) Human made CO2 emissions c) Industrial CO2 emissions d) All of the mentioned View AnswerAnswer: b Explanation: The word "anthropogenic" stands for environmental impact due to human activity. 11. Which process of water treatment is done to avoid floating debris, branches, trees, or other large particles suspended in water? a) Primary sedimentation b) Secondary sedimentation c) Screening d) Aeration View AnswerAnswer: c Explanation: Screens are used as a pretreatment process for purification of water to avoid large size suspended materials from water. 12. Which of the following compounds was earlier produced for the utility of transformers? a) PCB b) TCDD c) PCDF d) PDD View AnswerAnswer: a Explanation: Polychlorinated biphenyls were used for transformer purposes, but now it is prohibited due to its adverse environmental impact. 13. When Environmental Lapse Rate (ELR) is greater than Adiabatic Lapse Rate (ALR), then which of the following occurs? a) Super adiabatic lapse rate b) Neutral lapse rate c) Adiabatic lapse rate d) Sub adiabatic lapse rate View AnswerAnswer: a Explanation: In Super adiabatic lapse rate, the environment is unstable due to the quick dispersion of pollutants. 14. When environmental Lapse Rate (ELR) is less than Adiabatic Lapse Rate (ALR), then which of the following occurs? a) Super adiabatic lapse rate b) Neutral lapse rate c) Adiabatic lapse rate d) Sub adiabatic lapse rate View AnswerAnswer: d Explanation: When the temperature increases with an increase in altitude, Sub adiabatic lapse rate occur and there will be stable environment. 15. Which of the following is NOT a primary pollutant? a) Oxygen b) Ground-level ozone c) Carbon monoxide d) Carbon dioxide View AnswerAnswer: a Explanation: Ozone is not a primary pollutant since it is formed by the photo-chemical reaction of oxygen with the UV rays and not directly discharged into the atmosphere by a source. 16. Which of the following gas is released when alum is added to water? a) Ca (OH)3 b) CO2 c) Al (OH)3 d) CaSO4 View AnswerAnswer: b Explanation: Carbon dioxide gas is released when alum is added to water, which is corrosive to metals. 17. Which of the following plants is extremely sensitive towards sulphur dioxide? a) Tomato b) Onion c) Potato d) Corn View AnswerAnswer: a Explanation: Tomato is sensitive towards sulphur dioxide whereas onion, potato and corn are relatively tolerant. 18. Which of the following is not commonly used as a filter material in the treatment of water? a) Garnet sand b) Crushed rock c) Sand d) Anthracite View AnswerAnswer: b Explanation: Sand, Anthracite and Garnet sand are used as a filter material but crushed rock is not used in the treatment of water. 19. In which of the following process earthworms decompose biodegradable solid waste? a) Composting b) Land fills c) Shredding d) Vermi-composting View AnswerAnswer: d Explanation: The process of decomposition of biodegradable solid waste by earthworms is called Vermicomposting. 20. Which of the mentioned devices are used for removing vapour phase/gaseous pollutants? a) Thermal oxidisers b) Adsorption towers c) Catalytic converters d) All of the mentioned View AnswerAnswer: d Explanation: Adsorption tower, catalytic converters and thermal oxidisers filter out harmful gaseous pollutants from the air. 21. Which of the following is biodegradable waste? a) Paper b) Food waste c) Polythene bags d) Synthetic fiber View AnswerAnswer: b Explanation: Polythene bags, synthetic fiber, and paper are non-biodegradable wastes whereas food waste is biodegradable waste. 22. Which of the following water treatment process is done after filtration of water? a) Secondary sedimentation b) Flocculation c) Primary sedimentation d) Disinfection View AnswerAnswer: d Explanation: Disinfection is a process which is done to kill microorganism present in the water after the filtration process. 23. Which of the following type of pollution is Cultural eutrophication? a) Noise pollution b) Thermal pollution c) Soil pollution d) Water pollution View AnswerAnswer: d Explanation: Cultural eutrophication is a water pollution due to the presence of excessive nutrients from house waste, industries, etc. that pollutes the lake, decreases the oxygen level and destroys the aquatic ecosystem. 24. In the lower layers of atmosphere, what range of wavelengths of light is predominant? a) Between 100-300 nm b) Less than 100 nm c) Greater than 300 nm d) All wavelengths are equally present View AnswerAnswer: c Explanation: In the lower layers of atmosphere, light of wavelengths greater than 300nm are present and it is because of this reason, there is generally no ozone formation at the ground level. 25. Which of the following radiations of the sun do greenhouse gases trap? a) Infrared radiations b) UV radiations c) Visible radiations d) All the radiations View AnswerAnswer: a Explanation: Greenhouse gases trap the infrared radiations from the sun and reflect it back to the Earth's surface thereby heating up the planet. 26. Which of the following air pollution control device has maximum efficiency? a) Spray tower b) Wet cyclonic scrubber c) Dynamic precipitator d) Electrostatic precipitator View AnswerAnswer: d Explanation: Electrostatic precipitator has the maximum efficiency among the rest with a value of 99%. 27. Which of the following is not a part of photochemical smog? a) SPM b) PAN c) O3 d) NO2 View AnswerAnswer: a Explanation: Photochemical smog includes NO2, O3 and PAN. The damage to vegetation is caused by NO2, O3 and PAN. 28. Which of the following device is used to prevent the clogging of sewer pipes? a) Drop manhole b) Storm regulators c) Flushing tank d) Lamp hole View AnswerAnswer: c Explanation: Flushing tank is used to flush and clean the sewer to prevent it from clogging. This is done either by automatic flushing tank or by hand operated flushing tank. 29. Which of the following factor does not effect the dry weather flow? a) Infiltration of ground water b) Population growth c) Rate of water supply d) Temperature conditions View AnswerAnswer: d Explanation: There are four factors that affect the dry weather flow, namely the rate of water supply, population growth, type of area served and infiltration of ground water. 30. Which of the following gas is not colorless? a) SO3 b) Pb c) NO d) O3 View AnswerAnswer: c Explanation: NO is a highly reactive gas which is reddish brown in color, whereas O3, Pb and SO3 are colorless gas. 31. Which of the following is an advantage of a separate water carriage system? a) The more uniform character of sewage b) Two sets of sewer are used c) Get choked easily d) Difficult to clean the sewer View AnswerAnswer: a Explanation: The sewage in the separate water carriage system will be of more uniform character and it will lend itself more easily to purification. 32. Which of the following flow is also called sanitary sewage? a) Nonuniform flow b) Uniform flow c) Dry weather flow d) Storm weather flow View AnswerAnswer: c Explanation: Dry weather flow is the quantity of wastewater that flows through a sewer in dry weather when no storm water is present in the sewer. 33. Which of the following greenhouse gas is contributed by cattle farming? a) Carbon monoxide b) Nitrous oxide c) Methane d) All of the mentioned View AnswerAnswer: c Explanation: Methane is a gas released by the digestive processes of cattle and hence cattle farming also contributes to the greenhouse effect. 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