

BE Semester-V (civil) Question Bank

(Environmental Engineering-I)

All questions carry equal marks (10 marks)

Q.1	Enumerate different types of microbes and draw microbial growth curve stating its all components.
Q.2	Enlist different physical characteristics of water and explain any three in detail.
Q.3	Define D.O and give its value to be maintained in aquatic ecosystem. Explain in detail the D.O sag curve.
Q.4	State the classification of traps and explain Nanhi trap with neat sketch.
Q.5	Describe different air pollutants.
Q.6	Describe briefly various methods of collection of solid waste.
Q.7	State the factors suitable for selection of dilution method as a method of disposal.
Q.8	State different pollutants in industrial wastewater and explain briefly their effects.
Q.9	State the principle of house drainage system.
Q.10	Describe effect of air pollution on man.
Q.11	Define.(1)vent pipe (2)C.O.D.(3)aerobic microorganism(4)sewage (5)Secondary Air Pollutant
Q.12	What is noise pollution? What are the adverse effects of noise pollution?
Q.13	Explain B.O.D test with its significance and limitation.
Q.14	Give classification of solid waste.
Q.15	What are the goals of EIA? What are its limitations?
Q.16	Write short note on "Electrostatic precipitator".
Q.17	Define (1) Facultative microorganism(2)D.O (3)B.O.D (4) sullage (5) Garbage
Q.18	Write short note on "Composting".
Q.19	Write Indian standard for drinking water
Q.20	Write short note on Assessment of quantity of domestic requirement of water.
Q.21	Write Typical composition of dairy waste.
Q.22	Explain two pipe plumbing system with neat sketch
Q.23	Find out how much acidic is sample of pH 2.0 compared to sample of pH 6.0.
Q.24	Which are the common sources of noise pollution?
Q.25	Explain different control measures for air pollution.
Q.26	How solid waste is collected and conveyed from streets.
Q.27	State the difference between BOD & COD.
Q.28	State the Indian Ambient Air Quality Standards.
Q.29	Write short note on "Gravity settling chamber."
Q.30	Define Environment. Explain various components of environment.
Q.31	Write short note on Control of water borne diseases.
Q.32	Write a note on control of gaseous pollutants.
Q.33	State the air pollution control methods and equipment for it.

Q.34	What will be the maximum upper limit of B.O.D of a glucose solution of concentration 250 mg/lit.
Q.35	What do you mean by temporary and permanent hardness? Describe the method of determination of total hardness in the laboratory.
Q.36	Describe briefly (1) Drainage plan of building (2) Incineration.
Q.37	Enumerate different air pollution control devices and explain the functioning of cyclone precipitator.
Q.38	Describe all functional elements with flow diagram of solid waste management.
Q.39	Explain the difference between pyrolysis and incineration.
Q.40	The 5 days 30° C BOD of sewage sample is 150 mg/lit. Calculate its 5 day 20° C BOD. Assume the deoxygenation constant at 20° C $K_D(20^\circ)$ as 0.1