END SEM , DEC 2023

ENVIRONMENTAL IMPACT ASSESSMENT & MANAGEMENT PLAN

Type: DES

Q1. Write short notes on the Water Pollution Act in India. What are the important functions of the CPCB according to the water pollution act? (4) [co-1,BL2]

Q2. Write a summary of Environmental protection Act 1986 (4) [co-2,BL4]

Q3. What is "Terms of Reference" in Environmental Impact assessment? Who gives the "Terms of reference"? Explain. (2) [co-3,BL2]

Q4. What are the different objectives of Environmental audit (2) [Co-3,BL1]

Q5. Write an analysis /essay on Environmental Impact Assessment and its history (5) [Co-1,BL4]

Q6. Analyse changes brought in EIA notification of 2020. (3) [Co-3,BL4]

Q7. Summarize the benefits of EIA (4) [Co-2,BL2]

Q8. List any 8 major Environmental laws in India with the year of passing (2) [Co-1,BL1]

Q9. What are the applications of the various EIA mitigation measures to a coal based thermal power plant to mitigate air pollution? (4) [Co-4,BL3]

Q10. Write a summary on Environmental Management (4) [Co-2,BL2]

Q11. List and compare the different tools and techniques used in EIA. (2) [Co-3,BL4]
Q12. With a neat flow chart explain the process of the EIA process in India in 2006, and give the timelines. (4) [Co-2,BL1]

Q13. Evaluate current EIA in India and list changes you that may propose to future EIA notification (3) [Co-3,BL5]

Q14. Interpret the socioeconomic effects of Nafra Valley project?? (2) [Co-4,BL3]

Q15. A city is located near an airport. The smelter stack is 300 m high and has a plume rise of 100m. It is emitting 10,000 g/s of SO2. Assume stability class is C (Refer chart in next page) and that wind speed is 4m/s. A flight path for airport is perpendicular to the plume and 7km downwind of the smelter. The airport safety office has determined that it is unsafe for planes if the planes if the plume concentration > 500 µg/m3. They have also decided that it is unsafe to fly under the plume. Assume Gaussian plume. Dispersion coefficients for various stability criteria is given in the figure.

What is the minimum altitude the plane can fly safely above the plume, without considering ground reflection of plume?

What is the minimum altitude the plane can fly safely above the plume with considering ground level reflection?

(5) [Co-4,BL4]