

POSSESSION OF MOBILES IN EXAM IS UFM PRACTICE.

Name _____

Enrollment No. _____

Jaypee Institute of Information Technology, Noida

End Term Examination, 2023

B.Tech, IV Semester

Course Title: Environmental Studies

Maximum Time: 2 Hrs

Course Code: 19B13BT211

Maximum Marks: 40

CO1: Explain diversity of environment, ecosystem resources and conservation

CO2: Identify hazards related to environmental pollution and safe management practices

CO3: Apply modern techniques for sustainable urban planning and disaster management

CO4: Recall government regulations, environmental policies, laws and ethics

CO5: Survey ground situation on specific environmental aspects, examine risks involved, make a final report and present findings

Answer the Following

SECTION A

Q.1. Demonstrate how hazardous effects of e-waste could cause permanent and irreversible illnesses in humans and other living beings by providing two specific case studies. Describe prominent features of both the case studies. (2+2=4) [CO1]

SECTION B

(All questions in this section carry 3 marks. (12 X 3 = 36))

Q.2. What led to the failure of GAP (Ganga Action Plan)? What were the risks involved? Explain in relation to the important components of GAP. [CO2]

Q.3. What are the specific issues concerning e-waste that make their management complex? Discuss this in relation to international E-waste trade. [CO2]

Q.4. Design a strategy to treat waste water discharge that comes from multiple industries & pollute Yamuna. Explain all 3 stages of Waste water treatment along with a labelled diagram. [CO2]

Q.5. Explain the phenomenon of temperature inversion and how it traps pollutants in the breathable space. Support your answer with the help of an appropriate case study. [CO2]

Q.6. Articulate your concerns regarding management of Fly ash generated from thermal power industries. Suggest appropriate solutions as suggested by Fly ash Mission to solve the problems associated with disposal of fly ash. [CO2]

Q.7. Give any 2 strategies to remove SPM (suspended particulate matter) from flue gases (industry discharge). Draw a neat, well labelled diagram of related air pollution control equipment. [CO3]

Q.8. How can carbon budgeting be related to Global warming? What measures does Kyoto Protocol suggest as tools to achieve net zero emissions? [CO3]

Q.9. Assume you are the presiding officer to manage cyclone & landslide prone Uttarakhand. Explain the risk factors. Recommend safe construction practices, prevention and mitigation measures. [CO3]

Q.10. Explain how the power generation mix of India is skewed in favour of non-renewable energy resources. What made the non-renewable sources a popular choice? State at least 2 strategies for increasing the utilization of renewable energy resources in Indian scenario. [CO3]

Q.11. How does Air Act, Water Act and Forest Act ensure that pollution of natural resources is prevented and timely corrective actions are taken to safeguard environment resources? [CO4]

Q.12. Discuss how EPR policy can help in saving the environment in terms of waste management. Mention 3 major steps you can take to handle e-waste at your end. [CO4]

Q.13. Environment Protection Act (EPA) is often considered as an umbrella legislation to safeguard India's state of environment. Comment & Discuss. [CO4]