


<b>Name:</b> <b>Enrolment No:</b>	 <b>UPES</b> UNIVERSITY WITH A PURPOSE
--------------------------------------	--

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**Online End Semester Examination, June 2021**

**Course: Environmental Sciences**

**Semester: II**

**Program: B. Pharmacy**

**Time: 02 hrs**

**Course Code: BP206T**

**Max. Marks: 50**

**SECTION A**  
(Scan and Upload)

**1. Answer 02 questions out of any 03 questions.**

**2. Each question will carry 10 Marks.**

**3. Instructions: Write long answers.**

S. No.	Question	CO
Q1	<b>Case study</b> Many parts of Maharashtra, including Mumbai, were impacted by severe flooding on 26 <sup>th</sup> July 2005. The floods were caused by heavy torrential rain; Mumbai was lashed with 994mm (39.1 inches) of rain, which lasted for 24 hours and continued erratically the next day. At least 5000 people died, and thousands of people were left stranded on the road with their homes inundated. The entire city came to standstill. Amongst the other causes such as clogged and insufficient drainage system, the large-scale destruction of mangroves and wetlands along the coastlines was a major contributor to the magnitude of damage in terms of lives and property. a) Define term flood. (02 marks) b) Identify the factors responsible for Mumbai flood (03 marks) c) State the control methods to prevent flood. (05 marks)	<b>CO1</b>
Q2	With the help of well-labelled diagram, demonstrate the working of Fixed Dome Type Biogas Plant.	<b>CO2</b>
Q3	Briefly assess the adverse effects of global warming.	<b>CO3</b>

**SECTION B**  
(Scan and Upload)

**1. Answer any 06 questions out of 08 questions.**

**2. Each question will carry 05 marks.**

**3. Instructions: Write brief/short answers.**

Q1	<b>Case Study</b> Thousand hectares of over irrigated land area in Haryana and Punjab are affected by soil salinity and alkalinity. This increased salinity is causing stunted plant growth and lowering crop yield in these areas. a) State the reason responsible for causing salinity problem in Haryana and Punjab. (01 mark) b) Suggest the remedial method for controlling salinity problem. (04 marks)	<b>CO1</b>
Q2	a) Name the pioneer community of Xerosere (Xerarch) (01 mark) b) Name 02 Biosphere Reserve situated in India (02 marks) c) Define term environment. (02marks)	<b>CO1</b>
Q3	With the help of well-labelled diagram, discuss different layers of soil.	<b>CO2</b>
Q4	With the help of well-labelled diagram, discuss Wet Cooling Tower and Dry Cooling Tower.	<b>CO2</b>

Q5	Examine the effect of oxygen demanding waste on surface water.	<b>CO3</b>
Q6	Briefly assess the adverse effects of ozone layer depletion.	<b>CO3</b>
Q7	You are generating lots of biodegradable solid waste at your home. You have developed composting technology in your kitchen garden to dispose this waste. Discuss composting process.	<b>CO4</b>
Q8	You are a water conservationist; you have develop few water conservation practices, which help in preventing unnecessary water loss. Briefly explain any five of them.	<b>CO4</b>