Write the following information in the first page of Answer Script before starting answer

ODD SEMESTER EXAMINATION: 2020-21

Exam ID Number		
Course	Semester	
Paper Code	Paper Title	
Type of Exam:	(Regular/Back/Improvement)	

Important Instruction for students:

- 1. Student should write objective and descriptive answer on plain white paper.
- 2. Give page number in each page starting from 1st page.
- 3. After completion of examination, Scan all pages, convert into a single PDF, rename the file with Class Roll No. **(2019MBA15)** and upload to the Google classroom as attachment.
- 4. Exam timing from 10am 1pm (for morning shift).
- 5. Question Paper will be uploaded before 10 mins from the schedule time.
- 6. Additional 20 mins time will be given for scanning and uploading the single PDF file.
- 7. Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

M.Sc. CHEMISTRY THIRD SEMESTER ENVIRONMENTAL POLLUTION & MANAGEMENT MSC-306 A (MDC)

Duration: 3 hrs. Full Marks: 70

[PART-A : Objective]

Time: 20 min. Marks: 20

Choose the correct answer from the following:

1X20 = 20

1. In which year the first world environment day was observed?

b. 1974 a. 1973 c. 1975 d. 1976

2. Air pollution is a mixture of:

a. Gases in the air b. Solid particles and gases in the air

d. None of these c. Air and water vapour

3. The term pesticide is used to:

b. Control pests a. Kill pests d. None of these c. Kill and control pests

4. The full form of SPM is:

a. Suspended particulate matter **b.** Super permanent matter

d. None of these c. Super particulate matter

5. The chemicals which can destroy the ozone layer is/are?

a. Chlorofluorocarbons (CFCs) b. Halon c. Carbon tetrachloride d. All of these

6. Which one of the following is not an example of Green house gas?

b. CO2 a. Water vapour

c. Methane (CH₄) d. Carbon monoxide

7. Photochemical reaction for formation of photochemical smog involve:

b. Sun light a. Heat c. Low pressure and temperature d. None of these

8. Point out the odd one.

a. Thermosphere **b.** Lithosphere c. Hydrosphere d. Atmosphere

9. Which of the following is not a part of hydrologic cycle?

a. Runoff **b.** Precipitation c. Fixation d. Transpiration

10. The approximate pH of acid rain is:

a. 7 **b**. 8 c. 4 d. 6.5

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11.	The main goal of sustainable agriculture is/a a. Environmental health	b. Economic profitability	
	c. Social equity	d. All of these	
12.	Which of the following is incorrect regarding a. Nitrogen from the atmosphere is not directly usable	nitrogen cycle? b. Lightening hampers nitrogen fixation	
	c. Bacteria in soil converts nitrogen in usable form	d. Trees absorb nitrogen from soil through roots	
13.	Which one of the following can be used for n a. By recycling c. Throwing of plastic bag	ninimizing waste? b. By dumping of waste material d. All of these	
14.	Which one of the following waste is becomin a. Non biodegradable waste c. Waste water	g a greater threat to the environment? b. Biodegradable waste d. None of these	
15.	In carbon cycle which among the following a a. Human c. Plants	bsorb carbon dioxide from atmosphere? b. Animals d. Insects	
16.	Which of the following belongs to type of dy a. Natural c. Laser	es? b. Synthetic d. All of them	
17	17. Which of the following is not a step of hydrocarbon decay?		
17.	a. Reduction	b. Termination	
	c. Propagation	d. Initiation	
10	- 0	namental to any ironment	
10.	In which of the following ways detergent is has Creates algea bloom	b. Acts as food imitation	
	c. Reduces surface tension between oil and water	d. Needs plastic packaging	
19. Which of the following industries is source of wastes?			
	a. Food	b. Oil	
	c. Mining	d. All of them	
20.	Which one of the following process is used for effective management		
	a. Use of plastics	b. Reuse and recycle	
	c. Disposal of waste	d. None of these	

USTM/COE/R-01

(PART-B: Descriptive)

Time: 2 hrs. 40 min. Marks: 50 [Answer question no.1 & any four (4) from the rest] 1. a. Explain the term Green house effect. Write briefly about the causes 5+5=10and consequences of Green house effect. **b.** What are the 3R's principle used in waste management? Mention one example of Bio-degradable and non-biodegradable waste. **2. a.** Write short notes on Ozone layer depletion. 5+2+3=10**b.** What is the formula of acid rain? c. What is smog? What are the types of smog? 3. a. With the help of schematic describe hydrological cycle. 5+5=10b. Briefly describe carbon and nitrogen cycle. **4. a.** When water is said to be polluted? What are main causes of water 5+5=10pollutants? Explain the affect of water pollution. **b.** Define eutrophication. What are the different techniques used for treatment of polluted water? 5. a. What is soil pollution? Briefly explain the different causes of soil 5+5=10pollution. **b.** What is land remediation? How do you remediate contaminated soil? **6. a.** What are the harmful effects of pesticides? How do fertilizers cause 5+5=10soil pollution? **b.** (i) What are wastes? (ii) What is disposal? (iii) Define the term recycling used in waste management? 5+5=10 7. **a.** With the help of schematic describe oxygen cycle. **b.** Pointwise describe the methods usually adopted in the treatment of hydrocarbon spillages and contaminations. **8. a.** Pointwise describe harmful effect of dyes. 5+5=10**b.** Describe how synthetic polymers are harmful to the environment?

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