QP Code: RD19MSC069	Reg.						AR 19
	No						



GIET UNIVERSITY, GUNUPUR – 765022

M. Sc(Third Semester) Examinations, December' 2020

CHE 504 / CHPE 304 – ENVIRONMENTAL AND ANALYTICAL CHEMISTRY (Chemistry)

Time: 2 hrs Maximum: 50 Marks

(The figures in the right hand margin indicate marks.)

Q.1. Answer **ALL** the questions

 $(2 \times 10 = 20)$

- a. What do you mean by pollutant and Pollution?
- b. Growing more trees helps in controlling air pollution to some extent. Give reason.
- c. Why sulphide and acidic wastes are not dumped at the same disposal site?
- d. Is the COD key test for determining the pollution load in water samples?
- e. Define the principle of Atomic absorption spectroscopy
- f. Name the compounds that have fluorescence property?
- g. Define radioisotopes
- h. write a note on radiometric titration
- i. Write any two differences between Atomic absorption spectroscopy and Flame emission spectroscopy
- j. What is ozone depletion?

PART - B (6 x 5 = 30 Marks)

Answer ANY FIVE questions			
2.	Explain and illustrate analysis of (i) NOx (ii) SO ₂	(6)	
3.	Explain that how aromatic hydrocarbon from exhaust and petrol is analysed	(6)	
4.	Describe briefly the waste water treatment process in detail	(6)	
5.	Enumerate the adverse effect of toxic elements like Cd, Cr and Pb on environment	(6)	
6.	Discuss Atomic absorption spectroscopy(AAS) instrumentation and applications in detail	(6)	
7.	Give an account on applications of fluorimetry	(6)	
8.	Explain the applications of radioisotopes in Medicine, Agriculture and Industry	(6)	
9.	Define the principle of isotopic dilution analysis and explain it with an example	(6)	

--- End of Paper ---