(10)

Registration No :															
													M.Sc.I		
FCYE508 5 th Semester Back Examination 2019-20 ENVIRONMENTAL SCIENCE BRANCH: M.Sc.I(AP), M.Sc.I(MC) Time: 3 Hours Max Marks: 70 Q.CODE: HB475 Answer Question No.1 which is compulsory and any FIVE from the rest. The figures in the right hand margin indicate marks.															
Q1	a) b) c) d) e) f) g) h) i)	Answer the following questions: Write four significance of a food chain. Write two objectives of Air Act, 1981 and what is its jurisdiction? What are the abiotic components of an ecosystem? Give examples Compute the pH of a sample of 0.6 x 10 ⁻³ M H ₂ SO ₄ solution. List the criteria air pollutants. Differentiate between BOD and COD. Differentiate between incineration and pyrolysis. What are the objectives of environmental audit? Name some green House gases present in the atmosphere? List the preventive measures to be taken for occupational diseases.												(2 x 10)	
Q2	a) b)	Explain the structural and functional units of ecosystem with suitable examples. Briefly discuss the functional attributes of an ecosystem. Give a schematic diagram showing the different steps of a Carbon cycle and discuss on it with the important reactions involved in it.												(5) (5)	
Q3	a) b)	and discuss on it.											ty of f the	(5) (5)	
Q4	a) b)	days of incubation at 200C comes out to be 4.6 mg/L. Find out the BOD ₃ at 27° C. Given $K_{20} = 0.14$ day ⁻¹ . Waste water sample volume is 10 ml.												O₃ at help	(5) (5)
Q5	a) b)	What is atmost dispersion photo What is mun discuss on it.	enom	ena.	•				•						(5) (5)

What is noise standard? Discuss various elements of noise measurement.

Compute the equivalent noise power level LAeq in a locality having three noise sources: 50 dB (A) acting for 20 minutes, 67 dB (A) acting for 30 minutes and

85 dB (A) acting for 10 minutes during one hour.

Q6

Q7 Explain the flow of energy through an ecosystem with the help of an energy flow model and discuss how the two laws of thermodynamics can be explained with the help of this model. (10)

Q8 Write short Notes on any TWO:

(5 x 2)

- a) Solid waste management through land fill and its merits and demerits.
- b) Environmental gradient and tolerance level of environmental fact ors.
- c) Types of incinerators in hazardous waste management.