

Registration no:

--	--	--	--	--	--	--	--	--	--

Total Number of Pages: 01

M.Sc.I
FCYE508

5th Semester Back Examination 2017-18

Environmental Science

BRANCH(S) : M.Sc.I(MC)

Time: 3 Hour

Max Marks: 70

Q.CODE : B618

Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: (2 x 10)**
- a) What are coagulants?
 - b) Enlist any two Indian environmental laws with their year of inception.
 - c) Define BOD. What is the formula to find the BOD of Waste water?
 - d) What are Sewage, Sewer and Sewerage?
 - e) What do you understand by dB?
 - f) What are the chemicals other than chlorine used for disinfection?
 - g) What are the sources of house hold solid waste?
 - h) Define SMOG. What are the components of it?
 - i) What is environmental auditing?
 - j) Define the various steps to control industrial emission.
- Q2**
- a) What are different types of food chains available in nature explain with examples? (5)
 - b) What are ecological pyramids? Explain with diagrams (5)
- Q3**
- a) Draw the bio geo chemical cycle for carbon & explain it. (5)
 - b) Draw and explain the temperature profile diagram of the atmosphere and explain it (5)
- Q4**
- a) Draw a flow sheet of conventional water treatment plant as practiced in India and explain it (7)
 - b) What do you mean by sedimentation? (3)
- Q5**
- a) What is the secondary biological treatment process for waste water? Explain it with flow sheet. (7)
 - b) What is equalization? (3)
- Q6**
- a) What are the three different steps of anaerobic digestion? Why it is known as anaerobic? (5)
 - b) What are acidogenesis and methanogenesis? (5)
- Q7**
- a) What are criteria and non criteria pollutants of air give some examples? (5)
 - b) What is integrated solid waste management explain with examples? (5)
- Q8 Write short notes (Any TWO) : (5X2)**
- a) Industrial safety Management.
 - b) Global Warming.
 - c) Acid Rain.
 - d) Depletion of Ozone layer.