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Total Number of Pages : 01

M.Sc.
16MCYF303

3rd Semester Regular Examination 2017-18

Environmental Chemistry

BRANCH(S): M.Sc. (AC)

Time: 3 Hour

Max Marks: 70

Q.CODE: B574

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)**
- What is "El-nino" effect?
 - What are Sewage, Sewer and Sewerage in case of Municipal waste water?
 - What are the three R's of Waste management?
 - Which reactor is used in case of Activated Sludge Process?
 - What is Fire triangle? What are the three components of it?
 - Define food chain and Food Web
 - What is Occupational Health?
 - Enlist some Biomedical hazardous Waste.
 - What are coagulants?
 - Enlist two Indian environmental laws with their year of inception.
- Q2**
- What do you mean by Eco system? Give two examples of artificial Eco system. (5)
 - What is Environmental Gradient? Draw the Universal tolerance curve for different levels of environmental factors. (5)
- Q3**
- Draw a flow sheet for treatment of MSW & explain (6)
 - What are the steps for primary treatment of waste water? (4)
- Q4**
- What is activated sludge process? Explain with a flow sheet. (5)
 - What are the two types of biological process? What do you mean by SDB? (5)
- Q5**
- What is Break Point Chlorination? Explain with diagram. What are the other chemicals used for disinfection? (5)
 - What are the advantages & disadvantages of use of chlorine as disinfectant? (5)
- Q6**
- What are the different steps taken for Industrial air emission control? Explain the outline of ESP. (5)
 - What do you mean by Fugitive emissions? How to control it? (5)
- Q7**
- Explain the hazard control measures generally followed in Petroleum refinery. (5)
 - Give a flow chart of Environmental Impact Assessment (EIA) for setting up of a new proposal for industries. (5)
- Q8 Write short notes on (any TWO) : (5X2)**
- Wind rose Diagram.
 - Personal Protective Equipments (PPE)
 - Lapse rate and diffusion
 - Safety Management.