

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018  
(Fourth Semester)

Branch - CHEMISTRY

CORE ELECTIVE-II: ENVIRONMENTAL CHEMISTRY

Time : Three Hours

Maximum : 75 Marks

Answer ALL questions  
ALL questions carry EQUAL marks (5 x 15 = 75)

- 1 a Explain the sulphur cycle. (6)
- b Discuss the types of pollution with example. (9)
- OR
- c Discuss the role of women in the protection of environment. (6)
- d List the factors affecting the environment. (9)
- 2 a Discuss the mechanism of ozone depletion. What are the effects of ozone depletion? Discuss in detail. (15)
- OR
- b What is acid rain? What is the cause of it? What are the effects of acid rain? How is it controlled? (15)
- 3 a Discuss the physical, chemical, biological and physiological pollution of water. (10)
- b How is eutrophication controlled? (5)
- OR
- c Discuss in detail the sources, effects and control of thermal pollution. (15)
- 4 a How is water treated for municipal purpose? Discuss in detail. (10)
- b What is meant by break point chlorination? (5),,
- OR
- c Discuss the various methods of desalination in detail. (10)
- d What are flocculants? How are they helpful in purifying water? (5)
- 5 a Write short notes on (i) incineration (ii) pyrolysis (iii) composting. (10)
- b What are the effects of urban wastes? (5)
- OR
- c What are pesticides? Discuss the environmental effects of pollution due to pesticides. (10)
- d Discuss in detail the method of disposal of radioactive wastes. (5)