

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2019  
(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 i) Sketch and explain carbon and nitrogen cycles. (10)  
ii) What are the factors affecting environment? (5)  
OR  
b i) Describe the classification of pollutants. (10)  
ii) How do you protect the environment? (5)
- 2 a Explain the following : (i) Green house effect (ii) Ozone hole  
(iii) acid rain  
OR  
b Describe the sources, effects and control of oxides of nitrogen, sulphur and carbon.
- 3 a State and explain Eutrophication. Give the types of its effects and control of it.  
OR  
b Discuss the classification of water pollution and pollutants.
- 4 a Explain the primary, secondary and tertiary treatment of sewage.  
OR  
b Define and explain hardness of water. How is it determined?
- 5 a What are industrial and urban wastes? Give the effects of industrial pollutants and urban waste.  
OR  
b Explain the following :  
(i) Effects of radioactive waste.  
(ii) Incineration  
(iv) Recycling solid waste

Z-Z-Z

END