

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018
(Second Semester)

Branch – ENVIRONMENTAL SCIENCE

WATER POLLUTION AND MANAGEMENT

Time : Three Hours

Maximum : 75 Marks

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

- 1 a Discuss the important properties of water and add a note on Henry's law. (15)
OR
b What is hydrological cycle? Describe it with a neat-labelled diagram. (10)
c Write a short note on hydrograph. (5)
- 2 a Explain in detail about water borne diseases and health effects. (15)
OR
b Write a note on marine pollution. (8)
c Elucidate the physico-chemical and biological parameters of water quality. (7)
- 3 a Write in detail on different techniques involved in drinking water purification. (15)
OR
b Elaborate on treatment techniques of a wastewater treatment plant. (10)
c What is F/M ratio? State its importance in wastewater treatment plant. (5)
- 4 a Explain the role of ion exchange and reverse osmosis in tertiary effluent treatment. (15)
OR
b Define sludge. Discuss about the sludge characteristics. (10)
c How constructed wetland treatment works? (5)
- 5 a Give a detail account on major river linking projects in India. (15)
OR
b Discuss about ongoing water conflicts and issues. (10)
c Write on National Water Policy. (5)

Z-Z-Z

END