

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018
(Fourth Semester)

Branch – ENVIRONMENTAL SCIENCE

CORE ELECTIVE-II -
NATURAL RESOURCES AND CONSERVATION

Time : Three Hours

Maximum : 75 Marks

Answer ALL questions

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

- 1 a i) What are renewable energy resources? Explain their advantages and disadvantages. (8)
ii) Write in about the extent of utilization of solar and wind energy in India. (7)
- OR
- b i) Explain the stratification of atmosphere with a neat sketch. (10)
ii) Discuss the impact of rapid climate change on the environment. (5)
- 2 a i) Explain the importance of water resources. (5)
ii) Discuss the methods available to conserve the water resources. (10)
- OR
- b i) List the principles of water quality management. (5)
ii) Narrate a case study to explain the strategies of water quality management. (10)
- 3 a i) What are the physico- chemical characteristics of the water present in Estuaries? (5)
ii) Write a note on the diversity of aquatic vegetation and fauna in estuaries. Are they threatened? (10)
- OR
- b i) What is desertification? What are the possible reasons for the same? (8)
ii) Discuss the effects of desertification on the environment in detail. (7)
- 4 a i) Write a note on the available marine mineral resources in different coastlines. (8)
ii) Elucidate the extraction procedure of any two minerals and discuss their abundance. (7)
- OR
- b i) Discuss about the uses of various minerals. (5)
ii) Explain the environmental implications of the extraction of minerals. (10)
- 5 a i) Elucidate the importance of biodiversity. (5)
ii) Elaborate the various ex situ conservation measures for biodiversity conservation. (10)
- OR
- b i) What are endangered and extinct species? Give examples. (8)
ii) How invasive species affects our biodiversity resources? Explain with examples. (7)