

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION JUNE 2014
(Sixth Semester)

Branch – CHEMISTRY

ENERGY & ENVIRONMENTAL CHEMISTRY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 What is meant by composting?
- 2 What is radioactive waste?
- 3 Define: Thermal pollution.
- 4 What is meant by the term sewage and effluent?
- 5 Define: Noise pollution.
- 6 What are the control measures of noise pollution?
- 7 Distinguish between proximate and ultimate analysis.
- 8 Define: Nuclear fission.
- 9 How will you improve antiknocking characteristics of diesel?
- 10 Define: Octane number.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Discuss pesticide pollution.
OR
b Explain the controlling methods of radioactive pollution.
- 12 a How to minimize the thermal pollution?
OR
b Explain eutrophication.
- 13 a Discuss the effect of noise pollution.
OR
b Explain biochemical effects of lead and cadmium.
- 14 a Discuss high temperature carbonization process.
OR
b Explain the production of plasma.
- 15 a Discuss the distillation of crude petroleum.
OR
b Discuss the manufacturing method of producer gas.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Discuss the various methods of disposal of solid waste.
- 17 Describe the various stages of waste treatment.
- 18 Explain the biochemical effect of NO_x and SO_x.
- 19 Discuss: Proximate and ultimate analysis.
- 20 Explain catalytic cracking process.

Z-Z-Z

END