

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(First Semester)

Branch – ENVIRONMENTAL SCIENCE

ENERGY RESOURCES & CONSERVATION

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 In which one of the following types of coal, higher percentage of carbon is found?
(i) Anthracite (ii) Lignite
(iii) Peat (iv) Bituminous
- 2 _____ fraction of light that is reflected by a body or surface.
(i) Conduction (ii) Refraction
(iii) Albedo (iv) Comets
- 3 Which one of the following is not an atomic fuel?
(i) Uranium (ii) Plutonium
(iii) Thorium (iv) Helium
- 4 Which rating and labelling is provided by BEE displayed on electrical home appliances?
(i) BIS (ii) ISI
(iii) STAR (iv) BLY
- 5 The Government of India set up Bureau of Energy Efficiency on _____.
(i) March, 2002 (ii) July 2004
(iii) March, 2004 (iv) July 2006

SECTION - B (15 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 3 = 15)

6. a) Prepare a list of role of social forestry.
(OR)
b) Elucidate the need of ecotourism.
7. a) Differentiate enthalpy and entropy with examples.
(OR)
b) Analyse the present status of energy consumption in India.
8. a) What are non-renewable resources and give its impacts to environment.
(OR)
b) What is natural gas and give its composition?
9. a) What are the benefits of energy audit?
(OR)
b) Narrate the energy efficiency rating systems for buildings in India.

Cont...

- 10.a) Is Energy Conservation Building Code mandatory in India? Discuss.
(OR)
b) Summarise the status of International Solar Alliance.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 6 = 30)

11. a) Explain in detail about the water resource management.
(OR)
b) Discuss the environmental issues pertaining to over exploitation of mineral and land resources.
12. a) Discuss first and second laws of Thermodynamics.
(OR)
b) Explain in detail about energy conservation measures.
- 13.a) How wind energy fulfill our energy demand? Explain.
(OR)
b) Discuss the significance of solar energy with recent initiatives by India.
14. a) What is green building concept and write its status around the world?
(OR)
b) Classify the different types of luminaries with their specifications.
15. a) Discuss any two government schemes related to energy conservation in India.
(OR)
b) Elucidate the functions and duties of IREDA.

Z-Z-Z

END