

BSc Semester-4 Examination

CC 205

Env. Science

April-2023

Time : 2-30 Hours]

[Max. Marks : 70

- Instructions:** (1) Draw figures where necessary.
(2) Show question number against each answer.
(3) Figures in right are marks.

Q.1 Write a detailed note on physio-chemical characteristics and energy content of coal. (14)

OR

Q.1(A) Write a note on nuclear fission reactors. (07)

Q.1(B) Write down the impacts of extraction and smelting on environment. (07)

Q.2 Write a detailed note on renewable sources of energy. (14)

OR

Q.2(A) Explain how energy from biomass is gained. (07)

Q.2(B) Explain Photovoltaic cells in detail with figure. (07)

Q.3 Write a note on nuclear fission and fusion in detail. (14)

OR

Q.3(A) Explain the environmental impact of nuclear waste. (07)

Q.3(B) Write down the ways for waste disposal of radioactive ways. (07)

Q.4 Write a note on impact of large scale exploitation of hydro and solar energy sources. (14)

OR

Q.4(A) Detail note on emissions of CO₂ in developing countries. (07)

Q.4(B) Explain India's potential from renewable energy. (07)

Q.5 Answer any **seven** out of twelve. (14)

- A. What are conventional sources of energy?
 - B. Name two hydro power plants of India.
 - C. Define geo-thermal energy.
 - D. Write down the types of coal.
 - E. Which type of renewable energy is used most in India?
 - F. What are short-lived nuclides?
 - G. Define solar ponds.
 - H. Define gross-calorific value.
 - I. Name the top states consuming solar energy.
 - J. What is India's rank in making energy from renewable sources?
 - K. Give examples of radioactive energy generation.
 - L. What is an anaerobic digester?
- x —