2804N156

Candidate's Seat No :_____

BSc Sem.-4 Examination
CC 205
Env Science
April 2022

Time : 2-00 Hours]

[Max. Marks : 50

Instructions: (1) Draw figures where necessary.

(2) Show question number against each answer.

(3) Figures in right are marks.

(4) Answer any **Three** out of initial **Eight** main questions, Question No. **9** is compulsory.

Section – I

Q 1. (A) Explain physio-chemical characteristics and energy content of coal. (7)

(B) Explain in detail mining and its effects on environment and surrounding. (7)

Q 2. (A) Note down non-renewable sources of energy in detail. (7)

(B) Note down the ways of recycling and recovery of resources. (7)

Q 3. (A) What is solar radiation and note down its spectral characteristics. (7)

(B) Explain in detail energy from biomass and biogas. (7)

Q 4. (A) Explain in detail the process of gaining energy from windmill. (7)

(B) Write note on solar collectors, solar heaters and photovoltaic. (7)

Q 5. (A) Impact of nuclear radiation on environment. (7)

(B) Explain in detail bioaccumulation with example. (7)

Q 6. (A) Detailed note on nuclear fission and fusion. (7)

(B) Note down the ways of radioactive waste disposal. (7)

Q7. (A) Note down environmental implications of energy exploration. (7)

(B) Explain energy usage pattern in India in detail. (7)

Q 8. (A) State down the renewable energy potential in India. (7)

(B) Explain in detail the impacts of CO_2 emissions in developing country. (7)

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Section – II

Q 9. Answer in short (any **Eight**): (8)

   A. What is tidal energy?

   B. What is nuclear fission?

   C. What is radioactive waste?

   D. Difference between conventional and non-conventional sources.

   E. What is bio-energy?

   F. Impacts due to CO_2 in developing country.

   G. What is fossil fuel?

   H. Note down non-renewable sources of energy.

   I. Effects of nuclear radiation on human health.

   J. What amount of average energy is used in India per day?

   K. Effects of mining and extraction on environment.

   L. What amount of average solar radiation reaches earth everyday?

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