

Roll No. Total No. of Printed Pages : 4

B04-406

Fourth Semester Online Examination, May-June, 2022

M. Sc. GEOLOGY

Paper - IV

ENERGY RESOURCES

Time : Three Hours] [Maximum Marks : 80

Note : • Part A and B of each question in each Unit consist of very short answer type questions which are to be answered in one or two sentences.

- Part C (Short answer type) of each question should be answered in 200-250 words.*
- Part D (Long answers type) of each question should be answered within the word limit 400-450 words.*

UNIT-I

1. (A) Define Electricity. 2
- (B) What do you mean by energy resources ? 2
- (C) Write note on pattern of energy consumption. 4

P. T. O.

B04-406

Or

Explain the difference between energy, power and electricity.

- (D) Write an essay on various types of energy sources. 12

Or

Describe Energy crises. Explain Social, Economical and Environmental Dimension of Energy.

UNIT-II

2. (A) In India coal found in which stratigraphic sequence also mention the age. 2
- (B) Define caking and non caking coal. 2
- (C) Explain geophysical method used in coal exploration. 4

Or

Explain environmental impact of thermal power plant.

[2]

B04-406

- (D) Explain theories of origin and formation of coal. 12

Or

Explain in detail the lower Gondwana coal deposits of India with special reference to Chhattisgarh.

UNIT-III

3. (A) Name the reservoir rock of Bombay High with its age, and structural control. 2
(B) Write name of 3 radioactive minerals. 2
(C) Write note on distribution of radioactive minerals in India. 4

Or

Write note on oil bearing basin of India.

- (D) Write Geology of offshore and onshore productive oilfield of India. 12

Or

Describe origin and formation of petroleum, migration and accumulation of oil and gas.

B04-406

UNIT-IV

4. (A) Describe tidal energy. 2
(B) Explain hydropower. 2
(C) Write note on Biomass generation and utilization.

Or

Write note on geothermal energy and scope of geothermal energy in India.

- (D) Write an essay on Solar Energy. Explain how India is leading in Solar Energy. 12

Or

Explain Principle of wind energy and application of wind energy in India.

□ □ □ □ □ d □ □ □ □ □