



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : MC 401/MC401 Environmental Sciences

UPID : 004421

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[1 x 10 = 10]

- (I) What do you mean by Abiotic component of ecosystem?
- (II) Define the term Lithosphere.
- (III) Define the term hydrosphere.
- (IV) What do you mean by soil pollution?
- (V) What is the unit of measurement of sound?
- (VI) The Environment (Protection) Act was enacted in which year?
- (VII) What do you mean by anthropogenic waste?
- (VIII) What are the major types of ecosystem?
- (IX) What is greenhouse effect?
- (X) Define the term COD.
- (XI) What is acid rain?
- (XII) Who developed the concept of ecological pyramid?

Group-B (Short Answer Type Question)

Answer any three of the following :

[5 x 3 = 15]

2. Discuss about the phosphate cycle with diagram. [5]
3. Write a short note about green house effect. [5]
4. Write a short note about different types of human environment interaction. [5]
5. Write a brief note about ecological pyramid. [5]
6. Write a brief note about standard control and measures for the control of air pollution. [5]

Group-C (Long Answer Type Question)

Answer any three of the following :

[15 x 3 = 45]

7. (a) What do you mean by Ecosystem? [3+6+6]
(b) What are the component of Ecosystem?
(c) Write down the oxygen cycle with diagram.
8. (a) What is global warming? [3+6+6]
(b) How dose green house gases cause global warming?
(c) What are the adverse effect of global warming?
9. a. Write a brief note about sustainable development. [6+3+3+3]
b. Define the terms: Total Fertility Rate, Total Mortality Rate, and Age Pyramid.]
10. (a) What is biogeochemical cycle? [3+6+6]
(b) Discuss about the carbon and nitrogen cycle with diagram.
11. What is dissolve oxygen? What is its importance as water quality parameter? [4+11]

*** END OF PAPER ***