

S-702

Total Pages : 3

Roll No.

EVS-506

Environmental Physics and Chemistry

M.Sc. Environmental Science (MSCES)-21

2nd Semester Examination, 2022 (Dec.)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. What is eco-toxicity? Elaborate the effect of eco-toxicants on human health and also discuss the mitigation approaches of eco-toxicants. 19

2. (a) What are different types of land forms present on earth? Discuss the effect of land forms on temperature, precipitation and solar radiation. 10
- (b) What is soil water? Explain different forms of water available in the soil. 9
3. (a) Differentiate between fog and smog. How precipitation affect visibility and transparency of a place ? 10
- (b) How soil water affects plant growth ? 9
4. (a) What is primary and secondary air borne contaminants? Discuss the adverse impact of air pollutants on human beings and plants. 10
- (b) What is acid rain? Explain the process of formation of acid rain. 9
5. (a) What is temperature? How quality, intensity and duration of light affect animal and plant growth? 10
- (a) Discuss various water purification techniques in detail. 9

SECTION-B
(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. What is fire? Elaborate different types of fires and their effect on plant and soil biota.

2. Differentiate between :
 - (a) Precipitation and humidity.
 - (b) Dry deposition and wet deposition.
 3. What are antioxidants? How these affect human health ?
 4. What is photoperiodism? Explain mechanism of photoperiodism in detail.
 5. Explain with giving suitable examples the process of bio-magnification.
 6. How various physical factors affect functioning of ecosystems?
 7. What are different chemicals used in food industry? How these exerts adverse impact on environment?
 8. What is mitigation? What are the mitigation strategies you will adopt for the removal of chemical from drugs and sweeteners?
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