

U.G. 2nd Semester Examination - 2020**ENVIRONMENTAL SCIENCE****[HONOURS]****Course Code : ENVS-H-CC-L-04****(Land, Soil Conservation and Management)**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** of the following: $2 \times 5 = 10$
- Define soil pedon.
 - What are the causes of soil erosion?
 - Why land is considered as a resource?
 - What is food security?
 - What are the micronutrients of soil?
 - What are the sources of toxic chemicals in the soil?
 - Define water holding capacity of soil.

2. Write short notes on any **two** of the following:

 $5 \times 2 = 10$

- Accelerated soil erosion
- Impact of climate change on soil health
- Rangeland formation
- Land use and land cover (LULC) changes

3. Answer any **two** of the following: $10 \times 2 = 20$

- Describe the differences in land use pattern between developed and developing countries. 10
- Define soil degradation. State the causes and consequences of soil degradation. $2+4+4=10$
- What is sustainable land use planning? What are the data bases used for such planning? Why land use policy is required? $4+4+2=10$
- Describe different soil types found in West Bengal. 10