

The Assam Royal Global University, Guwahati

Royal School of Environmental and Earth Sciences

B. A. / B. Sc. Geography 2nd Semester

Semester End Examination, July 2021

Course Title : Soil and Agriculture Geography

Course Code : GEO162C203

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.

The figures in the right-hand margin indicate marks.

Section – A

1. Attempt **all** questions. (Maximum word limit 50) 2 x 8
- What is Humification ?
 - Define B horizon of the soil.
 - What is the meaning of platy soil?
 - What are the pores in soil?
 - What is the meaning of Rudimentary tillage?
 - Define the term "Nomadic Herding".
 - What are Zaid crops?
 - Describe the concept "Agricultural regionalisation".

Section – B

2. Attempt **any two** of the following: 6 x 2
- Discuss the role of biota and climate in the process of soil formation.
 - Elaborate the importance of soil as a resource.
 - Elaborately describe the various layers of soil profile development.
3. Attempt **any two** of the following: 7 x 2
- Discuss the classification of soil on the basis of texture with proper diagram.
 - What is soil air? Discuss the composition and importance of soil aeration. 2+5
 - Illustrate the importance of soil temperature and its role in the growth of crops.
4. Attempt **any two** of the following: 7 x 2
- Discuss in brief about the factors that affects agricultural practices of a region.
 - Mention in details about any three types of agricultural systems of the world as delineated by Whittlesey.
 - Elaborately discuss any three types of agricultural systems of India.
5. Attempt **any two** of the following: 7 x 2
- What is crop concentration. Explain any two statistical methods associated with delineation of crop concentration regions. 2+5
 - Critically discuss the basic assumption of Von Thunen Theory along with the concentric zone ring concept of agricultural production. 2+5
 - Elaborate the method of crop rotation. Also mention the importance of crop rotation towards agricultural development. 2+5