

**Bajkul Milani Mahavidyalaya
(Vidyasagar University)**

Department of Geography (UG & PG)

M. A. / M. Sc., 1st Semester

End Term Examination -2020-'21

Subject: Geography

Paper: GEO 103: Climate, Soil and Agriculture

(Use separate answer script for each unit of the paper)

Full Marks: 40

Time: 2-Hours

(Candidates are required to give their answers in their own words as far as practicable)

Unit: GEO 103.1: Climatology

Answer any one question

1 x 20=20

1. Explain the causes and consequences of frequent occurrences of tropical cyclonic hazards in the Bay of Bengal. 20
2. Establish the relationship among Walker circulation, ENSO and La-Nina phenomenon in the Pacific Ocean. 20
3. Explain why desert climate develops within the Tropical and Polar Regions. 20
4. How does change in Sea Surface Temperature influence climate change? 20
5. Write the possible consequences of global warming citing examples from India. 20

Unit: GEO 103.2: Soil and Agriculture

Answer any one question:

1 x 20 = 20

1. Discuss the role of climate as an active factor in soil formation and highlight the importance of organic matter in soil fertility. 20
2. Enumerate the difference between Podzolization and Laterization processes with special reference to soil morphology. 20
3. Explain about Jonson's theory on agricultural land use and justify its applicability in Indian agricultural systems. 20
4. Critically highlight the major strategies of new agricultural policy (2000) of India. 20
5. Elaborate the role of institutional factors for developing agricultural systems in India. 20