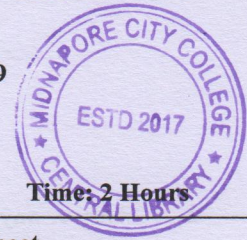


PG (NEW) CBCS  
M.Sc./M.A. Semester-I Examination, 2019  
GEOGRAPHY  
PAPER: GEO-103  
(Climate, Soil and Agriculture)



Full Marks: 40

Time: 2 Hours

**Write the answer for each unit in separate sheet**

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

GEO103.1: Climatology

**Marks: 20**

**GROUP-A**

1. Answer any one question: 1×8=8
- a) Briefly explain the mechanism of Walker circulation and ENSO phenomena.
- b) Discuss on the evidences of climate change with examples.

**GROUP-B**

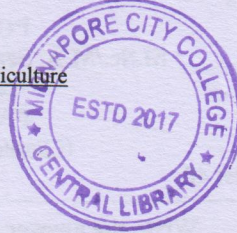
2. Answer any two questions: 2×4=8
- a) Describe the structure of Tropical cyclone.
- b) Discuss the influence of Jet stream on Indian Monsoon.
- c) Briefly explain the maritime influence on coastal weather.
- d) How anthropogenic activities are responsible for global temperature rise?

**GROUP-C**

3. Answer any two questions: 2×2=4
- a) Identify major characters of Highland climate.
- b) Discuss the relationship between climatology and meteorology.
- c) What do you mean by 'Heat island'?
- d) What is sea surface temperature?

(Turn Over)

(2)

GEO103.2: Soil and Agriculture**Marks: 20****GROUP-A**

1. Answer any one question: 1×8=8
- a) Explain the fundamental concept of soil geomorphology in perspective of landscape analysis and surface morphometry.
- b) Elucidate the physical determinants of agricultural pattern with examples.

**GROUP-B**

2. Answer any two questions: 2×4=8
- a) Write down the basic relation between organic matter and soil pH.
- b) Explain about the precision farming in India.
- c) Explain the role of slope in the formation of soil catena.
- d) Elaborate the negative impact of green revolution in India.

**GROUP-C**

3. Answer any two questions: 2×2=4
- a) What is Endomorph soil?
- b) What is TSS?
- c) What is GM crop?
- d) Define food insecurity.

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