

S-5/GEOG/GE(G)-I/19

TDP (General) 5th Semester Exam., 2019

GEOGRAPHY

(General)

PAPER - GE(G)-I

(Climatology, Soil and Bio-Geography)

Full Marks : 60

Time : 3 Hours

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

Section - A

1. Answer any six of the following questions : $2 \times 6 = 12$

- (a) Mention two high clouds with altitude.
- (b) What is insolation?
- (c) What is anticyclone?
- (d) What do you mean by soil profile?
- (e) Define azonal soil.
- (f) What is burst of monsoon?

[Turn Over]

(2)

- (g) Define ecology.
- (h) What do you mean by biogeochemical cycle?

Section - B

Answer the following questions. $12 \times 4 = 48$

2. (a) Define precipitation. Describe the processes and types of precipitation. $2 + (5 + 5) = 12$

Or,

- (b) What are the basis of Koeppen's climatic classification? Describe his classification and its limitations. $3 + (5 + 4) = 12$

3. (a) Define tropical cyclone. Describe the characteristics and structure of tropical cyclones. $2 + (5 + 5) = 12$

Or,

- (b) State the salient features of Indian monsoon. What is Jet stream? Explain the influence of jet stream on Indian monsoon. $5 + 2 + 5 = 12$

4. (a) Explain the controlling factors of soil formation. Describe the soil horizons with a neat sketch. $5 + (5 + 2) = 12$

(3)

Or,

- (b) Explain the following physical and chemical properties of soil. $3 + 3 + 3 + 3 = 12$

(i) Soil Texture

(ii) Soil Structure

(iii) PH

(iv) Organic matter

5. (a) Define biogeography. Discuss the Scope and Significance of biogeography. $2 + 5 + 5 = 12$

Or,

- (b) What is the difference between ecology and ecosystem? Discuss the basic ecological principles. Explain the oxygen cycle with illustration.

$3 + 4 + 5 = 12$