

UG 3rd Semester Examination

B.SC (HONS) GEOGRAPHY

Course name: Climatology

Full Marks: 40

Time: 2hours.

**Section –A**

(Object type)

1. Answer any five.

(5×1)=5

- a) What is the basis of Koppen's scheme?
- b) What is a cloud burst?
- c) Tornadoes are very common in which season?
- d) What is the location of horse latitude?
- e) Define Jet stream.
- f) Name the theories that are related with the origin of temperate cyclone.
- g) What is radiation?
- h) Into how many climatic zones Koppen divided the world?

**Section –B**

(Very short type)

2. Answer any five.

(5×2)=10

- i. What is solar constant?
- ii. What is environmental Lapse Rate?
- iii. Define Albedo?
- iv. Distinguish between BSh and BSK.
- v. What are the names of tropical cyclone in Australia, Philipian Island?
- vi. What is I.T.C?
- vii. What is frost?
- viii. Define agro-climatic region.

### **Section –C**

(Short type)

3. Answer any three.

(3×5)=15

- a) Describe the heat budget.
- b) Discuss the impact of climate on agriculture.
- c) What are the differences between tropical and temperate cyclone?
- d) Write in brief about the atmospheric stability.
- e) Define Ekman spiral.
- f) Discuss the Ice-crystal theory of precipitation.

### **Section –D**

(Essay type)

4. Answer any one.

(1×10)=10

- i. Discuss the world climatic zone by Trewartha.
- ii. Discuss the characteristics and different phases of Jet stream.
- iii. Discuss the vertical distribution of temperature.