



28/5/24

**Doon University**  
**Bsc Geography II<sup>nd</sup> Sem**  
**End-semester Exam- May-24**  
**Paper code: GGC-151(Climatology)**

**Total marks – 50**  
**Time- 120 minutes**

**Section- A**

**Multiple choice questions. Attempt all questions.**

**(6x1=6 marks)**

**Q-1 Tropopause height towards the poles**

- A. Increase
- B. Decreases
- C. Remains same
- D. Remains unstable

**Q-2 Which type of weather is indicative of sudden decrease in air pressure**

- A. Dry and clear weather
- B. Stormy weather
- C. Extremely cold weather
- D. Heavy rains

**Q- 3 Purga is:**

- A. Cool air of Europe
- B. Snow Laden Colds Wind in Russia
- C. Stormy winds of South America
- D. Warm air of Alps

**Q-4 How do winds behave in the Anticyclone?**

- A. They are very calm
- B. They spiral towards the centre
- C. They move horizontally
- D. They spiral out of the centre

**Q-5 Match the following:**

LIST-1	LIST-2
a. Cirrus clouds	I. Formed in Mesosphere
b. Nimbostratus clouds	II. Yield heavy rainfall
c. Noctilucent clouds	III. Mother of Pearl clouds
d. Nacreous clouds	IV. Composed of ice crystals

**Select the correct option from below:**

Code	(a.)	(b.)	(c.)	(d.)
A.	II	I	IV	III
B.	IV	II	III	I
C.	IV	III	I	IV
D.	I	II	III	IV

**Q-6 Consider the following statements**

- Mountain breeze blows during day.
- Valley breeze operate at night and blows down the mountain slope.

**Which of the above statement/ts is/are correct**

- A. Only 1
- B. Both 1 and 2
- C. None of the above
- D. Only 2



### Section – B

**Write short note on any (03) from the following:**

**(3x4=12 marks)  
80-100 words**

- 1) Characteristics of Jet streams
- 2) Types of clouds
- 3) Describe any 3 local winds of Africa
- 4) Types of temperature inversion
- 5) Atmospheric Stability

### Section – C

**(4x8=32 marks)  
250-300 words**

**Attempt any (4) long answer type questions from the following:**

- 1) Describes the conditions necessary for the formation of mid-litudinal cyclones  
Explain in detail The polar front theory of cyclogenesis?
- 2) Introduce the approaches adopted for classifying climate? Critically Evaluate the Koppen's scheme of Climate Classification?
- 3) Describe all the layers of the Atmosphere in short and highlight the role of Lower most of layer of the Atmosphere in global climate circulation?
- 4) What are air Masses? Highlight their role in the formation of fronts on Global scale?
- 5) Explain different types of Rainfall? Critically elaborate any one theory of Rain drop formation?
- 6) Explain in detail the Mechanism of Monsoons in India and How it affects the seasonal rainfall distribution over the Indian Subcontinent?