

Reg. No.:



Name:

University of Kerala

U8764

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

GEOGRAPHY

UK2DSCGGY101 - Climatology

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	The large, rotating storm system that forms over warm ocean waters in tropical regions	RE	4
2	The hot, dry wind that blows across northern India during summer	RE	3
3	The temperature effect due to which the urban area experiences warmer conditions than its surrounding rural regions.	UN	2
4	The climatic phenomenon characterized by the rise in sea surface temperatures in the central and eastern Pacific Ocean	UN	3
5	The cool and moist air mass that forms over cold ocean waters in polar regions.	UN	4
6	The luminous part of outer most region of exosphere	UN	1

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Write a note on convectional rainfall.	UN	4
8	Explain the nature and scope of Climatology as a discipline.	UN	1
9	Discuss how insolation affects the temperature condition of equator and poles.	AP	2
10	How does El Nino affect the monsoon season in India?	AP	3

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A)	AP	3, 2

Qn No.	Question	CL	CO
	How do global pressure belts influence the weather and climate of different regions? OR B) Explain the factors affecting global distribution of temperature.		
12	A) Assess the impact of El Nino on global weather patterns. OR B) Analyse the significance of various types of rainfall and its influence on local climate.	AN	3, 4
13	A) Evaluate the impact of human activities on the Earth's heat budget OR B) Evaluate the significance of climatology in confronting climate change.	EV	2, 1
14	A) Diagrammatically represent the earth's heat budget and discuss how the human activities affect it. OR B) Prepare a note on how conduction, convection, advection, and terrestrial radiation affect the atmospheric temperature	CR	2, 2