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COER University
END SEMESTER EXAMINATION, EVEN SEM 2022-23

Time : 3 hours

Total Marks : 100

Program Name : B.Sc.(Hons.) Agriculture

Semester : IV

Course Name : Introductory Agro meteorology & Climate Change

Course Code : BSAG409

Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the time.

Q. No 1	Attempt Any Five Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Explain elements of weather.	CO 1	2
(b)	Give a brief account on various layers of atmosphere.	CO1	2
(c)	Explain atmospheric pressure and humidity.	CO 1	2
(d)	What are atmospheric weather variables?	CO1	2
(e)	Explain Solar Radiation and Temperature.	CO 1	2
(f)	How atmospheric weather variables affect agriculture?	CO1	2

Q. No 2	Attempt Any Five Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Define microclimate.	CO2	2,6
(b)	Explain cardinal temperature for crop growth and production.	CO 2	2
(c)	How season and daily variation of temperature affects agriculture?	CO2	2,6
(d)	Discuss solar radiation and terrestrial radiation.	CO 2	6
(e)	What is solar constant? What is the value of solar constant?	CO2	2,6
(f)	Differentiate between valley breeze and mountain breeze.	CO 2	2

Q. No 3	Attempt Any Five Parts. Each Question Carries 5 Marks.	CO	BL
(a)	How does dew form? What is the importance of dew in crop production?	CO3	6
(b)	Describe in brief the process of precipitation.	CO3	6
(c)	Elaborate the meaning of humidity and types of humidity.	CO 3	6
(d)	Discuss causes, effects and mitigation measures of flood.	CO3	6
(e)	Discuss the importance of monsoon in Indian agriculture?	CO 3	6
(f)	Write a brief note on heat wave and cold wave.	CO3	6

Q. No 4	Attempt Any Five Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Describe climate change in detail.	CO 4	6
(b)	What is meant by weather forecasting? Describe its types and uses.	CO4	6
(c)	Elaborate impact of climate change on regional and national agriculture.	CO 4	6
(d)	How weather forecasting is beneficial and agriculture?	CO4	6
(e)	Elaborate climatic storms of wheat.	CO 4	6
(f)	Describe principle of artificial rain making and cloud shading.	CO 4	6

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