

Total No. of Questions: 6

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Enrollment No.....



Faculty of Agriculture
End Sem Examination May 2025
AG3CO33 Introductory Agro-Meteorology & Climate Change

Programme: B.Sc. (Ag.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

		Marks	CO	BL
Q.1	i. Greek word 'Meteoro' means_____.	1	1	1
	(a) High in the air			
	(b) Inside the earth's surface			
	(c) Space rock			
	(d) None of these			
	ii. The solid portion of earth is known as_____.	1	1	1
	(a) Hydrosphere			
	(b) Acetone			
	(c) Atmosphere			
	(d) Lithosphere			
	iii. The ultra violet radiation is strongly absorbed by_____.	1	2	2
	(a) Ozone			
	(b) Stratosphere			
	(c) Thermosphere			
	(d) Ionosphere			
	iv. According to planning commission, agro climatic region of the whole country has been divided into_____regions.	1	2	1
	(a) 11			
	(b) 16			
	(c) 15			
	(d) 20			
	v. Relative humidity is expressed in_____.	1	3	1
	(a) Decimal			
	(b) Percentage			
	(c) Proportion			
	(d) None of these			

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vi.	The line joining the places having equal atmospheric pressure is called as_____.	1	3	2
	(a) Isobar (b) Isohales			
	(c) Isohytes (d) Isotherm			
vii.	Monsoon is a_____.	1	4	1
	(a) Latin word (b) Arabic word			
	(c) Greek word (d) Italic word			
viii.	The wind vane is used to determine_____.	1	4	1
	(a) Wind speed (b) Wind pressure			
	(c) Wind direction (d) All of these			
ix.	Which types of weather forecasting helps in determining cropping pattern?	1	5	2
	(a) Short weather forecasting			
	(b) Medium weather forecasting			
	(c) Long weather forecasting			
	(d) All of these			
x.	Increased concentration of which of the following compound may cause maximum global warming?	1	5	2
	(a) Oxygen (b) Nitrogen			
	(c) Carbon dioxide (d) Water vapour			
Q.2	i. What is wind?	1	1	2
	ii. Define agricultural meteorology.	2	1	1
	iii. Write the differences between cyclone and anticyclone.	5	1	2
OR	iv. Explain composition of atmosphere.	5	1	2
Q.3	i. Define albedo.	1	1	1
	ii. What is solar constant? Give its average value.	3	2	2
	iii. What is the significance of solar radiation in crop production?	4	2	2
OR	iv. Explain the role of temperature in crop production.	4	3	2
Q.4	i. Write the forms of precipitation.	2	3	2
	ii. Explain cloud seeding and its types.	6	3	2

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OR	iii.	Give the classification of clouds.	6	3	2
Q.5	i.	Define heat and cold waves.	2	4	1
	ii.	What are weather hazards?	2	4	2
	iii.	Define drought? Give the classification of drought.	4	4	2
OR	iv.	Explain importance of monsoon in Indian agriculture.	4	4	2
Q.6		Attempt any two:			
	i.	Explain the types of weather forecasting and their uses in agriculture.	4	5	2
	ii.	Explain global warming and its impact on Indian agriculture.	4	5	3
	iii.	Define climate change, Write its impact on Indian agriculture?	4	5	3

Marking Scheme

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Q.1	i)	Greek word 'Meteoro' means. (a) high in the air	1
	ii)	The solid portion of earth is known as. (d) Lithosphere	1
	iii)	The ultra violet radiation is strongly absorbed by. (a) Ozone	1
	iv)	According to Planning Commission agro climatic region of the whole country has been divided into. (c) 15	1
	v)	Relative humidity is expressed is. (b) Percentage	1
	vi)	The line joining the places having equal atmospheric pressure is called as. (a) Isobar	1
	vii)	Monsoon is a, (b) Arabic word	1
	viii)	The wind vane is used to determine..? (c) Wind direction	1
	ix)	Which types of weather forecasting helps in determining cropping pattern? (c) Long weather forecasting	1
	x)	Increased concentration of which of the following may cause maximum global warming? (c) Carbon dioxide	1
Q.2	i.	What is wind?	1
	ii.	Define agricultural meteorology	2
	iii.	Write the difference between cyclone and anticyclone. Any five points.	5
OR	iv.	Explain composition of atmosphere. Any five points.	5
Q.3	i.	Define Albedo.	1
	ii.	What is solar constant? Also give its average value.	3
	iii.	What is the significance of solar radiation in crop production? Any four points.	4
OR	iv.	Explain role of temperature in crop production? Any four points.	4
Q.4	i.	Write the forms of precipitation.	2
	ii.	Explain cloud seeding and its types.	6

OR	iii.	Give the classification of clouds.	6
Q.5	i.	Define heat and cold wave.	2
	ii.	What are Weather hazards?	2
	iii.	What is drought? Give the classification of drought.	4
OR	iv.	Explain importance of monsoon in Indian agriculture. Any four points.	4
Q.6	i.	Explain types of weather forecasting and their uses. Any four points.	4
	ii.	Explain Global warming and its effect on Indian agriculture. Any four points.	4
	iii.	What are climate change and its impact on Indian Agriculture? Any four pints.	4