

RN19BSCAG012

	Registration No:				
Total Number of	of Pages: 2 4 th SEMESTER REGULA	AR-201 AR EXAM	.7	B.Sc (AG)	
		AG-247		C	
Time : 2 Hours	INTRODUCTORY AGRO METE	EOROLOG		E mum : 50 Marks	
	(Answer all que	estions of			
	` -	CTION – A	,		
O1. Fill	up the blanks with appropriate word		10x0.5=5		
a)	Solar radiation takes around			re from the	
a)		C.	me to reach the earth surface	ce from the	
1 \	photosphere of sun				
b)	is said to be most predominant gas in the earth's atmosphere				
c)	Thunderstorm is mostly associated with type clouds				
d)	d)type of plant (C3/C4/CAM) is photo synthetically more efficient under				
	certain concentration of carbon diox	ide			
e)	type of cloud is formed with gradual lifting of airmass				
f)	gas is said to be the most variable gas in the atmosphere				
g)	The value of solar constant is around Langley/min				
h)	The highest concentration of ozone is observed in layer of atmosphere				
i)					
	- area				
i)	The average extension of troposphere	in the ear	th's atmosphere is about	· km	
•	fine or explain the following	m the car	-	1=5	
	i. Green house effect		JA.	1–3	
	ii. Homosphere				
	iii. Mixing ratio				
	iv. CCN				
	v. Doldrum				
Q3. Ma	tch the column A with appropriate op	tions in co	blumn B $10x0.5=5$		
	Column A		Column B		
i	Convection	i	Deflection of wind		
ii	Luke Howard	ii	Equator		
iii	Ramdas	iii	Cirrus cloud		
iv	Blaney Criddle method	iv	50 ⁰ S latitude		
\mathbf{V}	Coriolis force	V	ET		

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vi	Tioserrene De Bort	vi	Cumulonimbus cloud
vii	Rain forming cloud	vii	Father of Agrometeorology
viii	ITCZ	viii	Transfer of heat
ix	Whispy and feathery cloud	ix	Troposphere
X	Furious fifties	X	Classification of cloud

Q4. Write TRUE or FALSE against the following statements

 $10 \times 0.5 = 5$

- Rain drops less than 0.5 mm diameter is known as drizzle a)
- A system of wind blowing spirally inward towards a low pressure is called anticyclone b)

- The radiation received by the earth surface and reemitted in the shortwave radiation c)
- Lines joining the equal rainfall is known as isohyet d)
- Increase in temperature decreases relative humidity e)
- Normal onset of monsoon in India is first week of July f)
- Change of state from liquid to vapour is known as sublimation g)
- The water which comes back to the earth surface in different forms is called as rainfall h)
- The protective shield in the atmosphere that filters the ultraviolet radiation from sun is i) the stratosphere
- The sky of moon looks red <u>i</u>)

SECTION – B (Short answer questions)

(Attempt **any five** questions. Each question carries equal marks)

 $[5 \times 6 = 30]$

- Q5. What is cloud seeding or artificial rain making? How they are helpful in negotiating the aberrant weather condition?
- Q6. What is cloud and how they are formed? Briefly discuss the classification of cloud.
- Q7. What do you mean by Indian monsoon? Briefly discuss the mechanism of development of monsoon.
- Q8. What is climate change? Briefly discuss the impact of climate change on agriculture
- Q9. Give the skeletal diagram of
 - i. Energy/heat budget of earth atmospheric system
 - ii. Global pressure belts and planetary circulation of wind
- Q10. Briefly discuss the different types of weather hazards. What are different types of drought and flood?