\mathbf{D}	9	1	7	42	

12 Run off cycle.

(Pages: 2)

Name	•••	•	•
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Reg. No.....

THIRD SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION NOVEMBER 2020

Geography

GRY 3C 03—GEOGRAPHY OF WATER RESOURCES

(2014 Admissions)

		(2014 Admissions)	
Time: T	'hree	Hours	Maximum: 64 Marks
I. Ar	swer	all the questions given in part A and B:	
(A)) An	swer the following using correct answer:)`
	1	Evaporation from snow and ice, the direct conversion from as ————.	solid to vapour, is known
	2	is a measure of the degree to which the pore s	spaces are interconnected
	3	is that part of precipitation which infiltrates horizontally in the soil to meet the nearest stream.	into the ground and moves
	4	A/an — is a confined aquifer containing groundwa	ater under positive pressure.
	5	The National Water Development Agency was set up in the y	year
(B)) Ma	rk the statement as True <i>or</i> False :	
	6	The rate at which groundwater moves through the satur permeability of the rock and the hydraulic gradient.	ated zone depends on the
	7	Aquiclude is a bed of low permeability along an aquifer.	
	8	In India, agriculture sector does the major exploitation of gro	oundwater.
	9	Alluvium is the major aquifer system in India which covers 31 per cent of the entire country.	a maximum area of around
11	10	Traditional water conservation systems are mostly seen in hi	ımid-wet regions.
	•		$(10 \times 1 = 10 \text{ marks})$
II. Ar	swer	all seven of the following in not more than 50 words:	
	11	Hydrologic year.	

- 13 Drainage basin.
- 14 Stream flow.
- 15 Drainage density.
- 16 Water balance.
- 17 Infiltration.

 $(7 \times 2 = 14 \text{ marks})$

III. Answer any three of the following in not more than 150 words:

- 18 What are the methods of estimating evapotranspiration?
- 19 State Darcy's Law.
- 20 Enlist the various sources and components of runoff.
- 21 Elucidate the concept of world youth parliament for water.
- 22 How does a barrage prevent flood?

 $(3 \times 4 = 12 \text{ marks})$

IV. Answer any three of the following in not more than 150 words:

- 23 Explain about the various meteorological factors affecting runoff.
- 24 What is meant by aquifer? Explain its types.
- 25 Bring out the major features of National water policy.
- 26 Write a note on the factors affecting infiltration.
- 27 Mention the major properties of an aquifer.

 $(3 \times 4 = 12 \text{ marks})$

V. Write essay on any two of the following in about 300 words:

- 28 What is Hydrology? Elaborate the scope of hydrologic studies in the present world.
- 29 Critically evaluate the need to do rainwater harvesting.
- 30 Illustrate and explain the working of hydrologic cycle.
- 31 Explain the role of various organizations in the country in safeguarding water resources.

 $(2 \times S = 16 \text{ marks})$

(Pages: 2)

Name.....

Reg. No....

THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION NOVEMBER 2021

Geography

GRY 3C 01.3—GEOGRAPHY OF WATER RESOURCES

(2019—2020 Admissions)

Time: Two Hours and a Half

Maximum: 60 Marks

Section A

Answer at least eight questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

- 1. Geohydrological unit.
- 2. Interception.
- 3. Aquitard.
- 4. Heat balance.
- 5. Perched water table.
- 6. Infiltration.
- 7. Saturated zone.
- Wetland.
- 9. Catchment area.
- 10. Porosity.

 $(8 \times 3 = 24 \text{ marks})$

Section B

2

Answer at least **five** questions. Each question carries 5 marks. All questions can be attended. Overall Ceiling 25.

- 11. Write a note on the forest conservation and management.
- 12. What do you know about the interlinking of rivers in India?
- 13. Give a note on water modern rainwater harvesting.
- 14. "Over extraction of ground water is harmful" Explain.
- 15. Explain about surface water pollution.
- 16. Discuss the significance of water resources.
- 17. Write a note on water in system of soil.
- 18. Briefly explain water conflict between Indian States.

 $(5 \times 5 = 25 \text{ marks})$

Section C

Answer any one question.

The question carries 11 marks.

- 19. Explain occurrence and forms and characteristics of water.
- 20. "Watershed is an ideal planning unit"- Elaborate.

 $(1 \times 11 = 11 \text{ marks})$

\mathbf{D}	1	20	1	7

(Pages: 2)

Name.....

Reg. No....

THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION NOVEMBER 2021

Geography

GRY 3B 03—CLIMATOLOGY

(2019—2020 Admissions)

Time: Two Hours and a Half

Maximum: 80 Marks

Section A

Answer at least eight questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

- 1. Inversion of temperature.
- 2. Albedo.
- 3. Frontogeneses.
- 4. Paleoclimate.
- 5. Coriolis effect.
- 6. Hadley cell.
- 7. Annual range of temperature.
- Solar radiation.
- 9. Cumulonimbus cloud.
- 10. Mistral.

 $(8 \times 3 = 24 \text{ marks})$

Section B

Answer at least six questions.

Each question carries 6 marks.

All questions can be attended.

Overall Ceiling 36.

- 11. Briefly explain about ozone depletion.
- 12. Give a short note on formation of fronts.
- 13. Explain about anticyclone and its characteristics.
- 14. Briefly discuss about significance of water vapour in atmosphere.
- 15. What are the controlling factors of winds?
- 16. Explain the climatic elements.
- 17. List out seasonal winds and explain?
- 18. Write a short account on fog types.
- 19. Give a note on vertical distribution of temperature.
- 20. Briefly explain about the seasonal shifting of pressure belts.

 $(6 \times 6 = 36 \text{ marks})$

Section C

Answer any **two** question.

Each question carries 10 marks.

- 21. Explain greenhouse effect and global warming.
- 22. Discuss in detail about airmass source regions and classification.
- 23. Write a detailed account on the precipitation formation and types.
- 24. Describe horizontal and vertical distribution of pressure.

\mathbf{D}	1	1	8	4	0		
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(Pages : 2)

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Reg. No.....

THIRD SEMESTER (CUCBCSS-UG) DEGREE EXAMINATION NOVEMBER 2021

Geography

GRY 3C 03—GEOGRAPHY OF WATER RESOURCES

(2017—2018 Admissions)

		(2017-2018 Admissions)	
Time	: Three H	lours	Maximum: 64 Marks
I.	Answer al	l ten of the following given in part (A) and (B):	, O'
	(A) Write	the answer True or False for the following:	
	1	Around 30% of the freshwater is stored as groundwater in	the world's aquifers.
	2	2.5% of the total volume of the world's water is estimated to	exist as freshwater.
	3	In India national water policy was implemented in the year	r 2005.
	4	Bhakra Nangal project is constructed across Sutlej and Rav	i rivers.
	5	Dr. Rajendra Sharma is most popularly known as water ma	an of Rajasthan.
	(B) Fill in	the blanks with correct answer:	
	6	refers to the process of transformation of war form.	ater from solid to gaseous
	7	ocean has the highest average salinity.	
	8	Bharathapuzha is the ————— longest river in Kerala	
	9	is a point of exit at which the ground water fro top of earth's surface and becomes surface water.	om an aquifer flows out on
	10	Mullaperiyar dam is located in ————— district of Kera	ala.
	1		$(10 \times 1 = 10 \text{ marks})$
II.	Answer al	seven of the following in not more than 50 words:	
CX	11	Interception.	
O,	12	Wetlands.	
	13	Porosity.	
	1.4	Fri	

- 15 Water parliament.
- 16 Water budget.
- 17 Aquifuge.

 $(7 \times 2 = 14 \text{ marks})$

- III. Answer any six of the following in not more than 150 words:
 - 18 Write a brief note on scope of geographical studies of water resources.

2

- 19 List out the major sourcesof surface water pollution.
- 20 Differentiate between saturated and unsaturated groundwater zones.
- 21 Briefly explain about any four major interstate water disputes in India.
- 22 What are the major factors which influence the hydrological cycle in a region?
- 23 Discuss about the various possibilities due to which a region has a qood availability of groundwater.
- 24 Explain why traditional water harvesting systems are less followed in the present world when compared to the past.
- 25 What are the major problems related to interlinking of rivers in India?
- 26 "Water is a ubiquitous resource". Justify
- 27 Critically assess the negative influences of human intervention in over extracting of groundwater resources.

 $(6 \times 4 = 24 \text{ marks})$

- IV. Write essay on any two of the following in about 300 words:
 - 28 Explain in detail about components and processes of hydrological cycle with illustration.
 - 29 Define aquifer and with the help of suitable diagrams explain about its major classifications.
 - Considering watershed as a planning unit review the role of IWMP in watershed development based on some successful stories.
 - 31 Describe how climate change influences water availability in a region based on climatic and hydrological condition of India.

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Reg. No.....

THIRD SEMESTER (CUCBCSS-UG) DEGREE EXAMINATION NOVEMBER 2021

Geography

GRY 3B 03—CLIMATOLOGY

(2017—2018 Admissions)

Time : Three	e Hou	rs		Maximum	: 80 Marks
I. Answe	er all <i>te</i>	n following given in part (A)	and ((B):	
(A) Cl	hoose t	he correct answer from the fo	llowi	ng:	
	1 S	olar constant is ————.			
	(a) 2 calories per sq.cm.	(b)	4 calories per sq.cm.	
	(c) 6 calories per sq.cm.	(d)	8 calories per sq.cm.	
	2 T	he sun is directly overhead at	noor	n on 21 st June at ———.	
	(;	a) The Equator.	(b)	23.5° N.	
	(c) 23.5° S.	(d)	66.5° N.	
	3 T	he layer of the atmosphere wh	iere t	the chemical composition is not unifo	orm :
	(;	a) Troposphere.	(b)	Stratosphere.	
	(c) Homosphere.	(d)	Heterosphere.	
	4 T	he pressure belt coincident wi	th do	ldrums is :	
	(8	a) Equatorial low.	(b)	Sub tropical high.	
	(e) Sub polar low.	(d)	Polar high.	
	5 Tl	ne direction of prevailing win	d at 4	45° N latitude :	
	(2	a) North Easterly.	(b)	South Easterly.	
	((e) North Westerly.	(d)	South Westerly.	
(B) Fill in	the bla	nks suitably :			
	6 Ba	arometer was invented by —		 ,	
	7 Th	ne percentage of ${ m CO}_2$ is ———		 .	

- 8 The imaginary line joining the place having equal sun shine is called ————.
- 9 The temperature at which the air gets saturated with humidity is known as
- 10 ————— cloud produces halos around sun and moon

 $(10 \times 1 = 10 \text{ marks})$

- II. Answer all questions is not more 50 words each:
 - 11 Distinguish between climate and weather.
 - 12 What do understand by Electromagnetic radiation.
 - 13 Give brief account on condensation nuclei.
 - 14 Give a short note on Tornado.
 - 15 What is an Anticyclone?
 - 16 Discuss the formation of Smog.
 - 17 What is Horse latitude?

 $(7 \times 2 = 14 \text{ marks})$

- III. Answer any nine of the following is not more than 150 words each:
 - 18 Discuss the causes and impacts of air pollution.
 - 19 What do you mean by Global warming? Discuss the human influence on climatic change?
 - 20 Discuss various types of clouds based on altitude.
 - 21 Discus the process of condensation and precipitation.
 - 22 Analyse the factors affecting insolation.
 - 23 Explain the formation and characteristics of monsoon.
 - 24 Examine the various types of fog and its characteristics.
 - 25 What is the difference between Specific and relative humidity?
 - 26 Discuss the processes of heating and cooling of atmosphere.
 - 27 Give an account on instability of atmosphere.

- 28 What do you understand by Isanomlous temperature?
- 29 Write a short note on causes ozone depletion.

 $(9 \times 4 = 36 \text{ marks})$

- IV. Write essays on any two of the following in about 300 words each:
 - 30 Analyse the origin, spatial distribution and characteristic of temperate cyclone.
 - 31 Give a detailed account on fronts and associated weather phenomena.
 - 32 Write essay planetary wind system.
 - 33 Give a detailed account on composition and structure of atmosphere.

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THIRD SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION NOVEMBER 2021

Geography

GRY 3B 03—CLIMATOLOGY

(2014—2016 Admissions)

Time : Th	ree	Hours	,		Maximum: 80 Marks
I. Ans	swei	all ten	of the following given in A	and I	3: (J)
A)	Ch	oose the	correct answer from the fo	llowi	ng:
	1	The inc	coming solar radiation is ge	neral	ly termed as :
		(a)	Sublimation.	(b)	Insolation.
		(c)	Condensation.	(d)	Precipitation.
	2	The mo	st abundant gas in the atm	osph	ere is:
		(a)	Nitrogen.	(b)	Oxygen.
		(c)	Carbon dioxide.	(d)	Hydrogen.
	3	Horse l	atitude is :	1	*
		(a)	Equitorial low.	(b)	Sub-tropical high.
		(c)	Sub-polar low.	(d)	Polar high.
	4	Water	vapour from clouds change	into	liquid by :
		(a)	Evaporation.	(b)	Precipitation.
		(c)	Green house effect.	(d)	Condensation.
	5	The slo	ping boundary between two	diffe	erent air masses is called as :
		(a)	Front.	(b)	Cyclone.
		(c)	Hail.	(d)	Anticyclone.
B)	Fil	l in the l	olanks suitably :		
	6	Tempe	rature in the troposphere	e dec	reases of 1°C for 165 metre ascent is known
		as ——	 .		
	7	The line	e joining places having sam	e atn	nospheric pressure is called as ———.
	8		nount of water vapour ac	tuall	y present in a given volume of air is termed
		as ——	 •		

- 9 The tropical cyclone in the region of China and Japan are called as ———.
- 10 The solid and liquid air pollutants in the atmosphere are generally called as ————

 $(10 \times 1 = 10 \text{ marks})$

- II. Answer all questions in not more than 50 words:
 - 11 Differentiate weather an climate.
 - 12 What is albedo?
 - 13 ITCZ.
 - 14 Relative Humidity.
 - 15 What is Fog?
 - 16 Sea breeze and Land breeze.
 - 17 Fronto-genesis.

 $(7 \times 2 = 14 \text{ marks})$

- III. Answer any five questions from the following in not more than 150 words:
 - 18 Write a short note on the Composition of atmosphere.
 - 19 Explain about the vertical distribution of temperature.
 - 20 What are the factors controlling atmospheric pressure?
 - 21 Hydrologic Cycle.
 - 22 What are the forms of condensation?
 - 23 Write a short note on airmass.
 - 24 Explain the characteristics of an anticyclone.

- IV. Answer any four questions from the following in not more than 150 words:
 - 25 Explain about temperature inversion.
 - 26 Briefly explain the scope of climatology.
 - 27 Describe the main pressure belts found in the globe.
 - 28 What are the main forms of precipitation?
 - 29 Write a brief classification of air masses.
 - 30 Green house effect.
 - 31 What is tropical cyclone? Explain its characteristics.

- V. Write essays on any two of the following in about 400 words:
 - 32 Summarise the present state of our knowledge of the atmospheric layers and its characteristic.
 - 33 Describe the planetary wind system of the earth with suitable illustrations.
 - 34 Explain the formation of monsoon and its characteristics.
 - 35 Analyse the causes and impacts of global warming.

D 92940	(Pages : 2)	Name
THIRD SEMESTER (CBCSS—U	JG) DEGREE EXAM	Reg. No IINATION, NOVEMBER 2020
	Geography	
GRY	3B 03—CLIMATOLO	GY
Time : Two Hours and a Half		Maximum: 80 Marks
	Section A	
Eac All	ver at least eight question h question carries 3 mark questions can be attended Overall Ceiling 24.	s. d.
1. Insolation.	2. Define Air N	Aass.
3. Relative Humidity.	4. Greenhouse	Gas.
5. Fog.	6. Occluded fro	ont.
7. Diurnal temperature.	8. Convections	al rainfall.
9. Local winds.	10. Ozone layer	
Eac	Section B swer at least six questions th question carries 6 mark	s.
All	Overall Ceiling 36.	

- 11. What are the controlling factors of atmospheric pressure? Explain.
- 12. Give a short note on layered structure of atmosphere.
- 13. Explain about planetary wind system with illustration.
- 14. Briefly discussed about the heat budget.
- 15. What are the different types of forms of condensation? Explain?
- 16. Explain the seasonal shifting of pressure belts.
- 17. What are the evaporation controlling factors?
- 18. Write a short account on the hydrologic cycle.

- 19. Give a note on temperate cyclone and its characteristics.
- 20. Briefly explain about the horizontal distribution of temperature.

 $(6 \times 6 = 36 \text{ marks})$

Section C

Answer any **two** questions. Each question carries 10 marks.

- 21. Describe about types of clouds and its formation.
- 22. Discuss in detail about human influence on climate.
- 23. Write a detailed account on the significance of weather.
- 24. Explain about Monsoon and its characteristics.

\mathbf{D}	91	74	43
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(Pages: 2)

Name

Reg. No.....

THIRD SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION NOVEMBER 2020

Geography

GRY 3C 03—GEOGRAPHY OF WATER RESOURCES

			(2017 Admissions)	
Time	: Th	ree	Hours	Maximum: 64 Marks
I.	Ans	wer	all ten of following given in part (A) and (B):	
	(A)	Wr	ite the answer True or False for the following:	
		1	As climatic changes, warming of the atmosphere will influence t	he hydrological cycle.
		2	Nile is the longest river of the world.	
		3	River flows are measured in litres per second.	
		4	Chipko movement was started in Kerala.	
		5	Pamba-Achankovil-Vaippar are the three proposed rivers in the in Kerala.	nter basin transfer links
	(B)	Fill	in the blanks with correct answer:	
		6	Water that a person can drink is called ———.	
		7	It is an area of land where precipitation collects and drains off called ————.	into a common outlet is
		8	The project National Water Grid , proposed by ———.	
		9	is the rainwater harvesting project was undertaken be envisaging construction of ferro cement rain water harvesting strenkulam, Alleppy. Trivandrum, and Pathanamthitts.	
	- -	10	is the process of converting waste water to water that purposes.	t can be reused for cther
				$(10 \times 1 = 10 \text{ marks})$
II	. Ans	wer	all seven of the following in not more than 50 words:	
		11	Weirs.	
		12	Wetland.	
		13	Ground water.	
	•	14	Roof top harvesting.	
		15	Water crisis.	

- 16 Artesian wells.
- 17 Aquiclude.

 $(7 \times 2 = 14 \text{ marks})$

III. Answer any six of the following in not more than 150 words:

- 18 Explain the different forms of water.
- 19 Discuss the watershed as a hydrological unit.
- 20 Give a short note on the significance of wetlands.
- 21 Explain the need for rain water harvesting.
- 22 Write a short note on National Water Policy.
- 23 Discuss the physical and chemical characteristics of water.
- 24 Explain the challenges of interlinking of rivers in India.
- 25 Write a short note on different ground water zones.
- 26 Describe the scope and content of hydrology.
- 27 What are the goals of Alwar water parliament? Explain

 $(6 \times 4 = 24 \text{ marks})$

IV. Write essays on any two of the following in about 300 words:

- 28 Explain the components and process of hydrological cycle.
- 29 Discuss the overdraft of ground water and its impacts on sustainable development.
- 30 Give a detailed account on conservation of water resources.
- 31 Write an essay on water scarcity in the world.

 $(2 \times 8 = 16 \text{ marks})$ -

D 91697	(Pages: 3)	Name
		Reg. No

THIRD SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION **NOVEMBER 2020**

Geography

	GRY 3B 03-	-CLI	MATOLOGY		
	(2017 A	Admis	ssions)		
Time: Three Hours				Maximum: 80	Marks
I. Answer all ten	following given in part (A)	and (B):		
(A) Choose the	e correct answer from the fo	llowii	ng:	,	
1 Norma	l Lapse rate in the atmosph	ere is			
(a)	6.5° C per 1000 meter.	(b)	5.5° C per 1000 meter.		
(c)	6° C per 1000 meter.	(d)	4.5° C per 1000 meter.		
2 Corioli	s forces is caused by :	18			
(a)	Rotation of the moon.	1			
(b)	Rotation of the earth.				
(c)	Due to volcanic eruption.				
(d)	Wind blow from equator t	o pole	es.		
3 Isother	rms are used to show the ho	rizon	tal distribution of :		
(a)	Salinity.	(b)	Pressure.		
(c)	Rainfall.	(d)	Temperature.		
4 Wind v	relocity is measured by:				
(a)	Barograph.	(b)	Wind vane.		
(c)	Cop anemometer.	(d)	Aneroid barometer.		
5 The cer	ntral low pressure core of a	tropic	cal cyclone is called :		
(a)	Trough.	(b)	Eye.		
(c)	Depression.	(d)	Fronts.		

(B) Fill in the blanks suitably:

- 6 To reach the earth's surface the rays of the sun take about ————— Minutes
- 8 The continuous recording of air pressure is done by ______.
- 9 Atmospheric humidity is measured by ______
- 10 Precipitation in the Mediterranean type of climate is ______

 $(10 \times 1 = 10 \text{ marks})$

II. Answer all question is not more than 50 words each:

- 11 What do you mean by atmosphere?
- 12 Write a short note on insolation.
- 13 Give a note on horse latitude.
- 14 Briefly explain about Barometric gradient
- 15 Bring about the Cirrus cloud.
- 16 Write a short note on greenhouse effect.
- 17 Distinguish between the weather and climate.

 $(7 \times 2 = 14 \text{ marks})$

III. Answer any nine of the following is not more than 150 words each:

- 18 Explain about the atmospheric elements.
- 19 Describe the heating of the atmosphere.
- 20 Examine the forms of precipitation.
- 21 Narrate the forms of condensation.
- 22 List out the protection and maintenances of ozone layer.
- 23 Illustrated the sources of pollution.
- 24 Explain the major sources of greenhouse gases.
- 25 Discuss the significance of horizontal distribution of temperature.
- 26 Explain about the horizontal distribution of pressure.
- 27 Write a brief notes on advection fog.

- 28 Write an account on horizontal variation in pressure.
- 29 Give a note on economic importance of the monsoon.

 $(9 \times 4 = 36 \text{ marks})$

- IV. Write essays on any two of the following in about 300 words each:
 - 30 Describe the structure of the atmosphere.
 - 31 Give an account on world pressure belts.
 - 32 Discuss about the major sources and process of global warming.
 - 33 Illustrated the global warming and international co-operations.

Reg.	No

THIRD SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION NOVEMBER 2020

Geography

GRY 3B 03—CLIMATOLOGY

(2014 Admissions)

					(2014 Adm)	ssions)	
Time	: Th	ree	Hours				Maximum: 80 Marks
I.	Ans	wer	all ten o	of following in par	rt (A) and (B):		
	(A)	Cho	ose the	correct answers f	from the follow	ing:	
		1	The line	es joining places h	naving same te	mperature is called :	
			(a)	Isobar.	(b)	Isotherm.	
			(c)	Isohel.	(d)	Isodose.	
		2	The rat	e of change of pre	essure from one	e place to another is kno	own as :
			(a)	High pressure.	(b)	Compulsion.	
			(c)	Tension.	(d)	Pressure gradient.	
		3				=	te over the western parts
			Rajasth	an where the sur	nmer temperat	ture are high :	
			(a)	Monsoon.	(b)	The bise.	
			(c)	Loo.	(d)	Khamsin.	
		4	Ice may	convert directly	into water vap	our without intervening	g liquid state is called :
			(a)	Sublimation.	(b)	Evaporation.	
	•	V	(c)	Condensation.	(d)	Precipitation.	
<u> </u>	1/1	5	Change	s in temperature	without any a	ctual loss or gain of hea	at are called :
				Anabatic Chang	(h)	Katabatic Change.	
	7		(c)	Adiabatic change	e. (d)	Temperature inversio	n.

(P)	T:II	in	+ha	hlan	Ьe	suitably
(\mathbf{R})	Hill	in	the	hlan	ks	Silitavi

- 6 The state of ————— is when a rising parcel of unstructured air cools more rapidly than the surrounding it.
- 7 Temperature in Troposphere decrease by ______ increase in altitude.
- 8 The _____ is a strong warm dry wind which blows periodically to the lee of Alps mountain range.
- 9 are the tropical cyclones of Atlantic.

 $(10 \times 1 = 10 \text{ marks})$

II. Answer all questions in not more than 50 words:

- 11 What is Insolation?
- 12 What is Temperature inversion?
- 13 What is Doldrums?
- 14 What is Fog?
- 15 Define Hydrological cycle.
- 16 Describe Occluded front
- 17 Explain Ozone.

 $(7 \times 2 = 14 \text{ marks})$

III. Answer any five of the following in not more than 150 words:

- 18 What is heat budget?
- 19 Brief out pressure belt with suitable diagram.
- 20 What you mean by condensation?
- 21 What is an anticyclone?
- 22 What is greenhouse effect?
- 23 Compare weather and climate.
- 24 What is Cloud?

- IV. Answer any four of the following in not more than 150 words:
 - 25 Explain the vertical distribution of temperature.
 - 26 Explain the formation and characteristics of monsoon.
 - 27 Explain the different types of measuring humidity.
 - 28 Classify and explain different types of air masses.
 - 29 Write a short note on Global warming
 - 30 Explain seasonal winds with examples
 - 31 Explain different forms of condensation

 $(4 \times 4 = 16 \text{ marks})$

- V. Write essay on any two of the following in about 300 words:
 - 32 Explain the structure and composition of the atmosphere.
 - 33 Explain the planetary wind system with suitable diagram.
 - 34 What are the different forms of precipitation? Explain in detail.
- 35 Explain the formation and characteristics of cyclones.