





Biosphere Reserves

Reserves in Biosphere India - 18

the eighteen reserves of biosphere Eleven of

India fall under the list of Man and Biosphere Programme of JNESCO

WildLife

domesticated animals Non -

Both vertebrates invertebrates

species: 1.5 millior India's species 81,251 World's total

Vegetation Natural

Rainfall

Evergreen Forest Tropical **Tropical**

Tropical Dry Forest

Deciduous Forest

Montane forest Mountain or

Himalayan Forest) Eastern

Himalayan i) Western Forest Alpine Forest

Tidal Forest

Riverine Forest Coastal Forest

MIND MAP

Distribution of Monsoon

Winter or cold Seasons

weather season (Jan - Feb)

Pre Monsoon or Summer or hot

weather season (Mar - May)

Monsoon or rainy June - Sep) South west season

North east Mon-

soon season (Oct - Dec)

The factors affecting the climate

* Latitudes

Distance from the sea

* Altitudes

* Monsoon winds

Relief

* Jet streams



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POINTS TO REMEMBER

- Climate of India is labelled as "Tropical Monsoon Type"
- Equable climate is also called the British climate.
- The Tropic of Cancer divides the country into two equal halves.
- The sudden approach of monsoon wind over south India with lightning and thunder is termed as the 'break' or 'burst of monsoon'.
- The average annual rainfall of India is 118 cm.
- > 'Mango showers' or thunder showers help in quick ripening of mangoes along the coast of Kerala and Karnataka.
- The Indian Board for Wild Life (IBWL) was constituted in 1952.
- The Government of India enacted Wildlife (Protection) Act in 1972.
- The Indian government has established 18 Biosphere reserves in India.
- Desert and semi desert Vegetation are also called as 'Tropical thorn forests".
- Coastal forests are littoral forests.

PLACES AND THEIR IMPORTANCE

Atacama desert

- The driest place on the earth.

Mawsynram (Meghalaya) - Receives highest rainfall in the world (1141 cm).

Gulf of Mannar

Biosphere reserve in Tamilnadu.

b) Deciduous forest

d) Mountain forest

I. Choose the correct answer:

a) Tropical evergreen forest

c) Mangrove forest

Meteorology is the a) Weather	b) Social	• c) Political	d) Human
We wear cotton d	uring		
a) Summer	b) Winter	c) Rainy	d) Northeast Monsson
Western disturbar	nces cause rainfall in	-	
		c) Punjab	d) Madhya Pradesh
helps in	n quick ripening of n	nangoes along the coast of K	Kerala and Karnataka.
a) Loo			
is a lin	e joining the places o	f equal rainfall.	
			d) Latitudes
Climate of India	is labelled as		
	The second of th		te
- 하겠다		d) Temperate Clima	
The monsoon fore	ests are otherwise cal	led as	
	a) Weather We wear cotton d a) Summer Western disturban a) Tamil Nadu helps i a) Loo is a lin a) Isohyets Climate of India a) Tropical humid c) Tropical Monso	a) Weather b) Social We wear cotton during a) Summer b) Winter Western disturbances cause rainfall in a) Tamil Nadu b) Kerala helps in quick ripening of m a) Loo b) Norwester is a line joining the places of m a) Isohyets b) Isobar Climate of India is labelled as a) Tropical humid c) Tropical Monsoon Climate	We wear cotton during a) Summer b) Winter c) Rainy Western disturbances cause rainfall in a) Tamil Nadu b) Kerala c) Punjab helps in quick ripening of mangoes along the coast of Is a) Loo b) Norwester c) Mango showers is a line joining the places of equal rainfall. a) Isohyets b) Isobar c) Isotherm Climate of India is labelled as a) Tropical humid b) Equatorial Climate



6. Mawsynram is located in the state of _____.

D	on	GEOG	RAPHY				10 th	Sta	ndard - SOCIAL SCIENCE
8. 9.	a) I c) N	Deciduous fo Mangrove fo	orests prests			100 m Himalayas. b) Alpir d) Tidal rve is situated in	ne fores l forests	S	
		Tamil Nadu				esh c) Madh			
10.						work biosphere res llai c) Great			NESCO. d) Kachch
温	ADI	DITIONAL	QUESTION	S					
11.	a) (is al Continental Equable clim		Britisl	1 C	limate. b) Hum d) Hot o			
12.	a) S			hich a	aff	ects the climate of b) Natu d) Raint	ral veg		on
13.			b) Kera		l in	c) Punja	ab		d) Andhra Pradesh
14.						Andhra Pradesh. c) Asiat			d) Snow leopard
15.		A STATE OF THE PARTY OF THE PAR	erve in Odisha b) Siml			c) Mana	as		d) Cold desert
						ANSWER			
	1	. a) Weath	ner	2.	a)	Summer	3	. c)	Punjab
	4	. c) Mang	o showers	5.	a)	Isohyets	6	. c)	Tropical Monsoon Climate
					100	Alpine forest		5	Andhra Pradesh
		d) (a) an				Equable climate		er eren	Monsson winds
	13	. c) Punja	b	14.	a)	Black Buck	15	. b)	Simlipal
II.F	ill ir	n the blanl	ks						
	ADI	DITIONAL	QUESTION	s					
1.	Wh	en the altitu	de increases t	he ten	1116	erature			
							This ph	enoi	menon is known as
						ow from the month			
4.	The	Southwest	monsoon beg	ins to	ret	reat from north In	dia by	the e	end of
5.	The	sudden app	proach of mor	soon	wi	nd over south India	a with	light	ning and thunder is termed as the

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CLIMATE AND NATURAL VEGETATION OF INDIA

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ANSWER

1. decreases

- 2. normal lapse

3. June

- 4. September
- 5. burst of monsoon
- Meghalaya

III. Match the following:



A)

TEXTUAL QUESTION

- Project Elephant
- Biodiversity hotspot 2.
- North East Monsoon
- 4. Tropical thorn forests
- Coastal forests

- Desert and Semi desert vegetation
- October December b.
- c Littoral Forest
- d. Protect the elephants
- The Himalayas

- Ans: 1) d
- 2) e 3) b
- 4) a
- 5) c

ADDITIONAL QUESTION

B)

- Highest rainfall
- 2. Mausim
- 3. Black Buck
- Nilgiri Tahr
- Kalbaisakhis 5.

- Norwesters
- Tamil Nadu b.
- Mawsynram
- Season 1
- Punjab

Ans: 1) c

- 2) d
- 4)b
- 5) a

IV. Consider the given statements and choose the correct option from the given below:



TEXTUAL QUESTIONS

- 1. Assertion (A): Monsoons are a complex meteorological phenomenon.
 - Reason (R) : Meteorologists have developed a number of concepts about the origin of monsoons.
 - a) Both (A) and (R) are true; R explains A
- b) Both (A) and (R) are true; R does not explain A

c) (A) is correct (R) is false

- d) (A) is false (R) is true
- 2. Assertion (A): The Himalayas acts as a climatic barrier.
 - : The Himalayas prevents cold winds from central Asia and keep the Indian subcontinent warm.
 - a) Both (A) and (R) are true; R explains A
- b) Both (A) and (R) are true; R does not explain A

c) (A) is correct (R) is false

d) (A) is false (R) is true

ADDITIONAL QUESTIONS

- 3. Assertion (A): Wild animals are non domesticated animals and include both vertebrates and invertebrates.
 - Reason (R) : India has a poor and undiversified wild life.
 - a) Both (A) and (R) are true; R explains A
- b) Both (A) and (R) are true; R does not explain A

c) (A) is correct (R) is false

d) (A) is false (R) is true



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- 4. Assertion (A): During cold weather seasons, the vertical rays of the sun falls over Tropic of Capricorn which is far away from India.
 - Reason (R) : Hence, India receives the slanting sun's rays which results in low temperature.
 - a) Both (A) and (R) are true; R explains A
- b) Both (A) and (R) are true; R does not explains A

c) (A) is correct (R) is false

d) (A) is false (R) is true

ANSWER

- 1. a) Both (A) and (R) are true: R explains A
- 2. a) Both (A) and (R) are true: R explains A

3. c) (A) is correct (R) is false

4. a) Both (A) and (R) are true: R explains A

V. Choose the inappropriate answers:

TEXTUAL QUESTIONS

- 1. Tidal forests are found in and around
 - a) Desert

b) The deltas of Ganga and Brahmaputra

c) The delta of Godavari

- d) The delta of Mahanadi
- 2. Climate of India is affected by
 - a) Latitudinal extent
 - c) Distance from the sea

- b) Altitude
- d) Soil

ADDITIONAL QUESTIONS

- 3. Norwesters cause rainfall to the state of
 - a) Assam

b) Bihar

c) Odisha

- d) West Bengal
- 4. The storm which occurs in the Bay of Bengal causes rainfall to
 - a) Tamil Nadu

b) Andhra Pradesh

c) Madhya Pradesh

d) Karnataka

ANSWER

- 1. b) The deltas of Ganga and Brahmaputra
- 2. d) Soil

3. c) Odisha

4. c) Madhya Pradesh

V. Answer the following in brief:

TEXTUAL QUESTIONS

1. Define 'Meteorology'.

Meteorology is the branch of science concerned with the processes and phenomena of the atmosphere, especially as a means of forecasting the weather.

2. What is meant by 'normal lapse rate'?

Temperature decreases at the rate of 6.5°C for every 1000 meters of ascent. This is called 'normal lapse rate'.

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3. What are 'Jet streams'?

- > Jet streams are the fast moving winds blowing in a narrow zone in the upper atmosphere.
- According to the jet stream theory, the onset of southwest monsoon is driven by the shift of the subtropical westerly jet from the plains of India towards the Tibetan plateau.
- > The easterly jet streams cause tropical depressions both during south-west monsoon and retreating monsoon.

4. Write a short note on Monsoon Winds.

- The most dominant factors which affects the climate of India is the monsoon winds.
- > These are seasonal reversal winds and India remains in the influence of these winds for a considerable part of a year.
- The onset of southwest monsoon brings down the temperature of the entire India and causes moderate to heavy rainfall in many parts of the country.
- > Similarly, the climate of southeast India is also influenced by north east monsoon.

5. Name the four distinct seasons of India.

- > Winter or cold weather season (January February)
- > Pre monsoon or summer or hot weather season (March May)
- > Southwest monsoon or rainy season (June September)
- North east monsoon season (October December)

6. What is 'burst of monsoon'?

The sudden approach of monsoon wind over south India with lightning and thunder is termed as the 'break' or 'burst of monsoon'.

7. Name the areas which receive heavy rainfall.

The western coast, Assam, South Meghalaya, Tripura, Nagaland and Arunachal Pradesh are the heavy rainfall areas.

8. State places of mangrove forest in India.

- > The delta of the Ganga Brahmaputra
- > The deltas of Mahanadi, Godaveri and Krishna rivers.

9. Name the trees of Tropical Evergreen Forest.

The most important trees are rubber, mahogany, ebony, rosewood, coconut, bamboo, cinchona, candes, palm, iron wood and cedar.

10. Write any five Biosphere Reserves in India.

- i) Agasthiyamalai Kerala
- ii) Dibru Saikhowa Assam
- iii) Gulf of Mannar Tamil Nadu
- iv) Kanchenjunga Sikkim
- v) Panna Madhya Pradesh

11. What is 'Project Tiger'?

Project Tiger was launched in April 1973 with the aim to conserve tiger population in specifically constituted "Tiger Reserves" in India.

This project is benefited tremendously with an increase of over 60% of tiger population resulting in 3,015 tigers.

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12. What do you mean by Monsoon?

- > The word 'monsoon' has been derived from the Arabic word 'Mausim' which means 'season'.
- > Originally, the word 'monsoon' was used to describe a system of seasonal reversal of winds along the shores of the Indian Ocean especially over the Arabian Sea.
- It blows from the south west to north east during summer and from the north east to south west during winter.

13. What is natural vegetation?

- > Natural vegetation refers to a plant community unaffected by man either directly or indirectly.
- > It includes all plant life forms such as trees, bushes, herbs and forbs, etc that grow naturally in an area have been left undisturbed by human for a long time.

14. What are the factors which affect the climate of India?

Factors like latitude, distance from the seas, monsoon wind, relief features and jet stream affect the climate of India.

15. Write a note on the Nilgiri Tahr.

- > The Nilgiri Tahr is facing a major threat in the Western Ghats.
- Continuous poaching activities and Eucalyptus cultivation is hampering its habitat. The Nilgiri Tahr population is continuously decreasing.

VI. Distinguish Between:



1. WEATHER AND CLIMATE.

	Weather	Climate
1.	Weather refers to the state of atmosphere of a place at a given point of time.	Climate is the accumulation of daily and seasonal weather event of a given location over a period of 30 - 35 years.
2.	Weather of a place may change daily.	Climate of a place remains constant over a long period.

2. TROPICAL EVERGREEN FOREST AND DECIDUOUS FOREST.

	Tropical Evergreen Forest	Deciduous Forest
1.	These forests are found in areas with 200cm or more annual rainfall.	These forest are found in the areas with 100 to 200 cm rainfall.
2.	The trees in these forests are evergreen. They do not shed their leaves.	The trees of these forests drop their leaves during the spring and early summer.
3.	The annual temperature is about more than 22°C.	The mean annual temperature of these region is about 27°C.
4.	Important trees: Rubber, Mahogany, Ebony, Rosewood.	Important trees: Teak, Sal, Sandal wood, Bamboo.



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3. NORTH EAST MONSOON AND SOUTH WEST MONSOON

	North East Monsoon	South West Monsoon		
1.	Northest monsoon blows duing October and November	Southwest monsoon blows from June to September		
2.	Northeast monsoon winds blow from land.	Southwest monsoon originate from the Indian ocean.		
3.	It gives rainfall to coromandal coast.	It gives rainfall to the western coastal plain and most other parts of india.		
4.	India gets only 25% of rainfall from Notrtheast monsoon.	India gets 75% of rainfall form southwest monsoon.		

(ADDITIONAL QUESTIONS

4. EASTERN HIMALAYAN FOREST AND WESTERN HIMALAYAN FOREST

	Eastern Himalayan Forest	Western Himalayan Forest These forests are found in the states of Jammu and Kashmir, Himachal Pradesh and Uttar Pradesh.	
1.	These are found on the slopes of the mountains in North - East states.		
2.	These forests receive rainfall of more than 200cm.	The rainfall of this region is moderate.	

5. WINDWARD SIDE AND LEEWARD SIDE OF THE MOUNTAINS

	Windward side	Leeward side
1.	The side of the mountain facing the moisture laden rain bearing wind is called windward side.	The other side of the mountain which is sheltered from the moisture laden wind is called leeward side.
2.	It receives heavy rainfall.	It receives very low rainfall.
3.	Eg: Western coastal plain.	Eg: Deccan plateau.

6. SUMMER SEASON AND WINTER SEASON

	Summer	Winter
1.	It is summer in India from March to May.	It is winter in India from January and February.
2.	During summer the vertical rays of sun fall over peninsular India.	During winter the vertical rays of sun fall over the Tropic of Capricorn.
3.	The temperature increases from south to north	The temperature increases from north to south.

VII. Give Reasons:



1. Western Coastal plain is narrow.

The Western Coastal plain is narrow because the river flowing through this plain do not form any delta.



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2. India has a tropical monsoon climate.

India has a tropical monsoon climate because most of India lies in the tropical belt and her climate is influenced by the monsoon winds which mainly blow in the tropics ie; 20°N and 20°S.

3. Mountain are cooler than the plains.

When the altitude increases the temperature decreases. Temperature decreases at the rate of 6.5°C for every 1000 metres of ascent. Hence mountains are cooler than the plains.

ADDITIONAL QUESTIONS

4. Why Atacama desert is the driest place on the earth?

- In the central India summers are hot and winters are cold.
- > It is because of the absence of influence of seas.

VIII. Answer in detail:



1. Write about Southwest Monsoon.

- > The Southwest Monsoon is the most significant feature of the Indian Climate.
- ➤ The onset of the Southwest Monsoon takes place normally over the southern tip of the country by the first week of June, advances along the Konkan coast in early June and covers the whole country by 15th July.
- The sudden approach of monsoon wind over south India with lightning and thunder is termed as the 'break' or 'burst of monsoon'.

The monsoon wind strikes against the southern tip of Indian landmass and gets divided into two branches.

- Arabian Sea branch
- Bay of Bengal branch

The Arabian Sea branch:

- It gives heavy rainfall to west coast of India as it is located in the windward side of the Western Ghats.
- The other part which advances towards north is obstructed by Himalayan Mountains and results in heavy rainfall in north.
- As Aravalli Mountain is located parallel to the wind direction, Rajasthan and Western part do not get much rainfall from this branch.

Bay of Bengal branch:

- The wind from Bay of Bengal branch moves towards northeast India and Myanmar.
- This wind is trapped by a chain of mountains namely Garo, Khasi and Jaintia which are mainly responsible for the heaviest rainfall caused at Mawsynram located in Meghalaya.
- Later, it travels towards west which results in decrease in rainfall from east to west.
- Over all about 75% of Indian rainfall is received from this monsoon.
- > Tamil Nadu which is located in the leeward side receives only a meagre rainfall.

2. Describe the forests of India.

On the basis of temperature, rainfall, topography and soil, the natural vegetation of India can be divided into the following types.



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Tropical Evergreen Forest:

- These forest are found in areas with 200cm or more annual rainfall.
- Western Ghats in Maharashtra, Karnataka, Kerala, Andaman Nicobar Islands, Assam, West Bengal, Nagaland, Tripura, Mizoram, Manipur and Meghalaya states have this type of forests.
- The most important trees are rubber, mahogany, ebony, rosewood, coconut, bamboo, cinchona, candes, palm, iron wood and cedar.

Tropical Deciduous Forest:

- These forests are found in the areas with 100 to 200 cm annual rainfall.
- These are called 'Monsoon Forests'.
- > The trees of these forests drop their leaves during the spring and early summer.
- These forests are found in Punjab, Haryana, Uttar Pradesh, Bihar, West Bengal, Jharkhand, Madhya Pradesh, Chattisgarh, Maharashtra, Telangana, Andhra Pradesh and Tamil Nadu.
- > Teak and Sal are the most important trees. Sandal wood, rose wood, Kusum, Mahua, Palas haldu, amala, padank, bamboo and tendu are the other trees of economic importance.
- > These forests also provide fragrant oil, varnish, sandal oil and perfumes.

Tropical Dry Forest:

- These forests are found in the areas with 50 to 100 cm annual rainfall.
- They represent a transitional type of forests.
- These are found in east Rajasthan, Haryana, Punjab, Western Uttar Pradesh, Madhya Pradesh, Eastern Maharashtra, Telangana, West Karnataka and East Tamil Nadu.
- > The important species are mahua, banyan, amaltas, palas, haldu, kikar, bamboo, babool, khair, etc.

Tropical Thorn Forest:

- These are found in the areas having annual rainfall of less than 50 cm.
- > They have low humidity and high temperature.
- These forests are found in north west India, which includes west Rajasthan, South west Haryana, North Gujarat, South west Punjab, parts of the Deccan plateau in Karnataka, Andhra Pradesh and Maharashtra.
- Babul, Kikar and Wild palms are common trees found here.

Mountain or Montane Forest:

On the basis of altitude and amount of rainfall, these forests are classified into two.

- i) Eastern Himalayan Forest,
- ii) Western Himalayan Forest.

Alpine Forest:

- It occurs all along the Himalayas with above 2400m altitude.
- These are purely having coniferous trees.
- > Oak, silver fir, pine and juniper are the main trees of these forests.
- > The eastern parts of Himalayas have large extent of these forests.

Tidal Forest:

- > These forests occur in and around the deltas, estuaries, creeks, prone to tidal influences and as such are also known as delta or swamp forests.
- The delta of the Ganga, Brahmaputra has the largest tidal forest.
- > The deltas of Mahanadi, Godavari and Krishna rivers are also known for tidal forests.
- The other name of these forests is mangrove forests.

Coastal Forest:

- These are littoral forests. Generally coastal areas have these forests.
- Casurina, palm and coconut are the dominant trees.
- > Both the eastern and western coasts have this type of forests.



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Riverine Forest:

- > These forests are found along the river on Khadar areas.
- > These are known for tamarisk and tamarind trees.
- The rivers of great plains are more prominent for this type of forest.

3. Write the names of biosphere reserves and their location in India.

The Indian government has established 18 Biosphere Reserves in India which protect larger areas of natural habitats.

S.No	Biosphere Reserves	States	
1.	Achanakmar,	Madhya Pradesh,	
	Amarkantak	Chattisgarh	
2.	Agasthiyamalai	Kerala	
3.	Dibru Saikhowa	Assam	
4.	Dihang Dibang	Arunachal Pradesh	
5.	Great Nicobar	Andaman and Nicobar Islands	
6.	Gulf of Mannar	Tamil Nadu	
7.	Kachch	Gujarat	
8.	Kanchenjunga	Sikkim	
9.	Manas	Assam	
10.	Nanda Devi	Uttarakhand	
11.	The Nilgiris	Tamil Nadu	
12.	Nokrek	Meghalaya	
13.	Pachmarhi	Madhya Pradesh	
14. Simlipal		Odisha	
15. Sundarbans		West Bengal	
16.	Cold desert	Himachal Pradesh	
17. Sesahachalam hills		Andhra Pradesh	
18.	Panna	Madhya Pradesh	

ADDITIONAL QUESTIONS

4. Analyse any two factors affecting the climate of India.

Latitude:

- India lies between 8°4' N and 37°6' N latitudes.
- > The Tropic of Cancer divides the country into two equal halves.
- The area located to the south of Tropic of Cancer experiences high temperature and no severe cold season throughout the year.
- The areas of the north of this parallel enjoys sub tropical climate.
- > Here, summer temperature may rise above 40°C and it is close to freezing point during winter.

Altitude:

- When the altitude increases, the temperature decreases.
- Temperature decreases at the rate of 6.5°C for every 1000 metres of ascent. It is called 'normal lapse rate'.
- Hence, places in the mountains are cooler than the places on the plains.
- > That is why the places located at higher altitude even in South India have cool climate.
- > Ooty and several hill stations of South India and of the Himalayan ranges like Mussourie, Shimla, etc are much cooler than the places located on the Great Plains.



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- 5. Write about the Biosphere Reserves of India.
 - Biosphere reserves are protected areas of land coastal environments wherein people are an integral component of the system.
 - ➤ The Indian Government has established 18 Biosphere Reserves in India which protect larger areas of natural habitat and often include one or more National Parks preserves along with buffer zones that are open to some economic uses.
 - ➤ Eleven of the eighteen biosphere reserves (Gulf of Mannar, Nanda Devi, the Nilgiris, Nokrek, Pachmarhi, Simlipal, Sunderbans, Agasthiyamalai, Great Nicobar, Kanjanjunga and Amarkhantak) of India fall under the list of Man and Biosphere programme of UNESCO.

6. Explain the Wild life of India.

- The term 'Wildlife' includes animals of any habitat in nature. Wild animals are non-domesticated animals and includes both vertebrates (fish, reptiles, birds and mammals) and invertebrates like bees, butterflies, moth etc.
- India has a rich and diversified wildlife.
- The Indian fauna consists of about 81,251 species of animals out of the world's total of about 1.5 million species.
- > The faunal diversity of the country consists of about

6,500	invertebrates	
5,000	molluscus	
2,546	fishes	
1,228	birds	
458	mammals	
446	reptiles	
204	amphibians	
4	panthers and	
60,000	species of insects.	

- Our country is the home to tigers, lions, leopards, snow leopards, pythons, wolves, foxes, bears, antelope species, monkeys, wild dogs, camels, snakes, crocodiles, rhinoceroses, varieties of bison and the mighty Asian elephants.
- > Hunting, poaching, deforestation and other anthropogenic interferences in the natural habitats have caused extinction of some species.
- In view of this the role of wildlife in maintaining ecological balance, conservation and management of biodiversity of India is necessary at present.
- ➤ The Government of India has exacted wildlife (protection) Act in 1972 with the objective of protecting wildlife of the country.
- > To preserve the country's rich and diverse wildlife 102 National Parks and about 515 wildlife sactuaries across the country have been created.

IX. HOTS:



1. Why is Mawsynram, the wettest place in the world?

The moisture wind from Bay of Bengal branch moves towards northeast India and Myanmar. This wind is trapped by a chain of mountains namely Garo, Khasi and Jaintia and the heaviest rainfall is caused at Mawsynram. So it is the wettest place in the world.





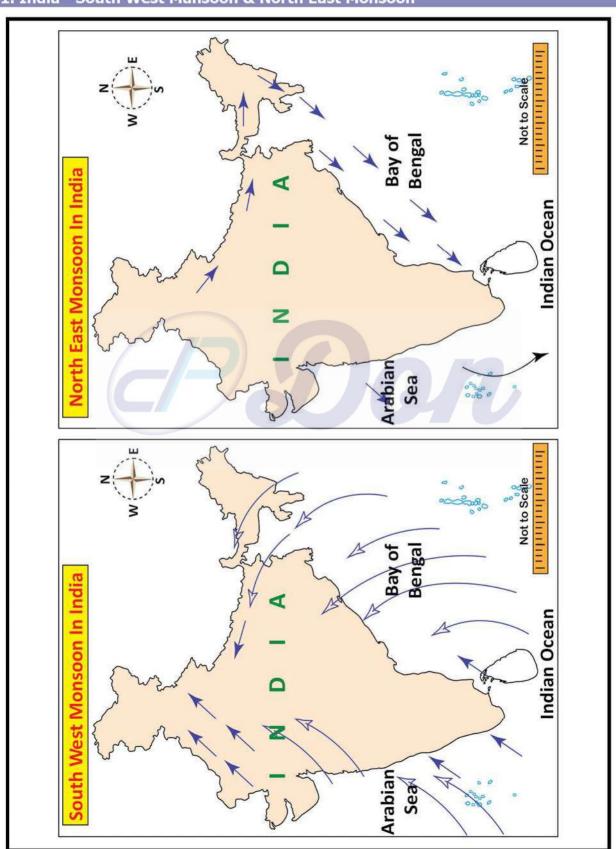
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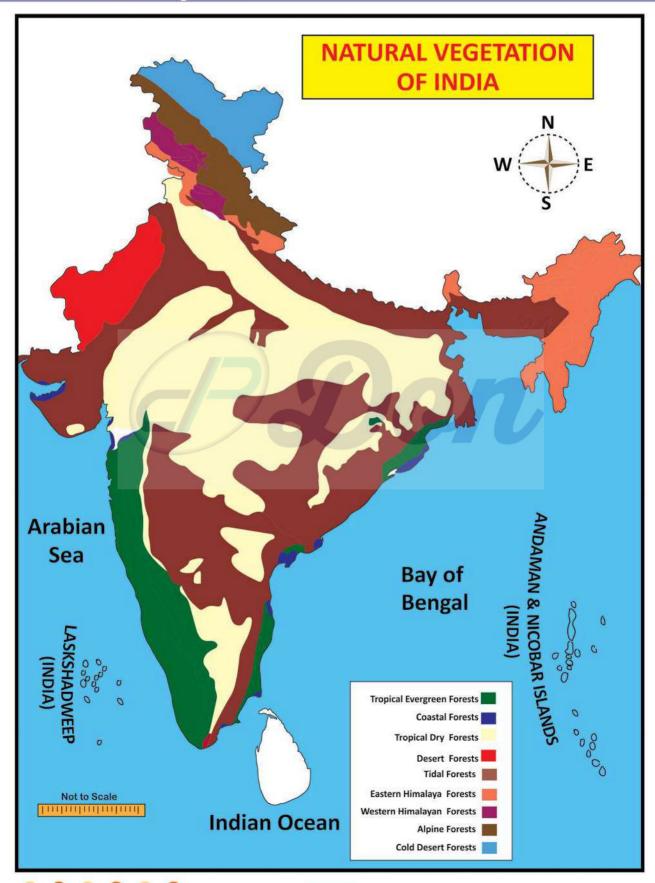
MAP WORK

1. India - South West Mansoon & North East Monsoon



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2. India - Natural Vegetation



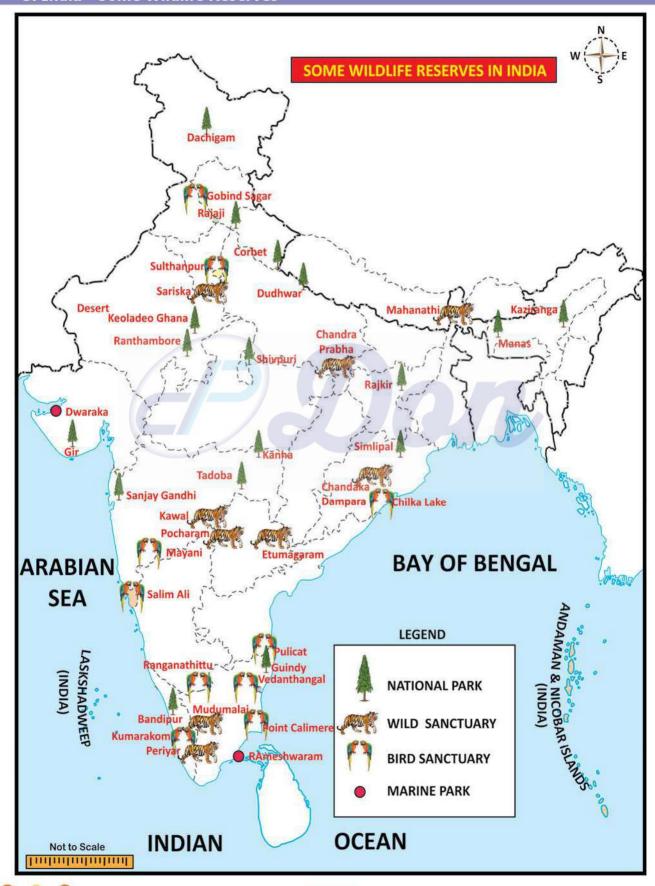


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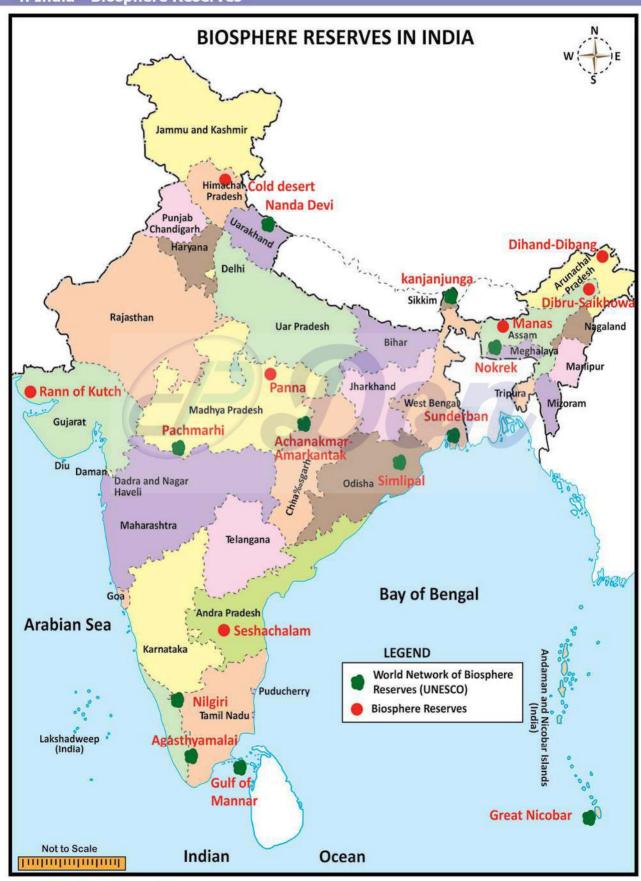
3. India - Some Wildlife Reserves





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4. India - Biosphere Reserves





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20. Write about South-west monsoon.

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Unit Test

UNIT - II - Climate and Natural Vegetation of India

Time	1.00 hr.	and Ivacular vegetation of	Marks: 30
I.	Choose the correct answer:		$5 \times 1 = 5$
1.	is a part of the world network a) Nilgiris b) Agasthiyamalai		D. d) Great Nicobar
2.	The deciduous forests are otherwise call a) Mountain forest c) Tropical evergreen forest	ed as b) Mangrove forest d) Monsoon forest	
3.	is a line joining the places of ea a) Isohyets b) Isobar	qual rainfall. c) Isotherms	d) Latitudes
	Meteorology is the science of a) Weather b) Social	c) Human	d) Political
5.	a) Cow b) Nilgiri Tahr	c) Cat	d) Ox
	Assertion (A): Monsoons are a complet Reason (R): Meteorologists have devaled a) Both (A) and (R) are true: R explain c) (A) is correct (R) is false Climate of India is affected by	veloped a number of concepts ab	out the origin of monsoon.
8. 9. 10. 11.	Pune -	 a. Desert and semi desert v b. Littoral forest c. Protect the elephants d. Leeward side e. Moves northward 	$5 \times 1 = 5$ egetation
	Give reasons: Mountains are cooler than plains.		$2 \times 1 = 2$
	Distinguish between: North east monsoon and South west mo	onsoon.	$2 \times 1 = 2$
15. 16. 17. 18.	Answer the following in brief: What are 'jet streams'? What is 'Project Tiger'? What is 'Burst of monsoon'? Define 'Meteorology'. Name the four distinct seasons of India.		$5 \times 2 = 10$
VIII.	Answer the following in a parag	graph:	$4 \times 1 = 4$
