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## UNIT 1 SEASONS AND TIME

1.What are the reasons for the different seasons?

\*Revolution of the Earth

\*Tilt of the Earth's axis

\* The parallelism of the Earth's axis

\*Apparent movement of the sun

2.What is revolution of the Earth?

The Earth revolves around the Sun in an elliptical orbit. This is known as revolution.

3.What is the parallelism of the Earth's axis?

\*The axis of the Earth is tilted at an angle of 66 1/2\*from the orbital plane and 23 1/2\* from the vertical plane.
\*The Earth maintains this tilt throughout its revolution. This is known as parallelism of the Earth's axis.

4.What is the apparent movement of the sun? Parallelism is maintained same throughout the revolution. So the position of the Sun in relation to the Earth varies apparently between Tropic of Cancer (23<sup>1</sup>/<sub>2</sub>° North) and Tropic of Capricorn(23<sup>1</sup>/<sub>2</sub>° South). This is known as the apparent movement of the Sun.

- 5. Which are the important seasons on earth? Spring, Summer, Autumn and Winter
- 6.Different seasons are get repeated in a cyclic manner.Why? Because of the apparent movement of the sun between Tropic of Cancer (23½°N) and Tropic of Capricorn (23½°S)
- 7.Seasonal changes are not very obvious in the tropical regions .Why? Because of the incidence of large amount of Sun's rays throughout the year.
- 8.Seasonal changes are obvious in which zones? In the mid latitudinal or temperate zones.

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9.Explain equinoxes.

The apparent position of the Sun during the Earth's revolution will be over the Equator on March 21 and September 23. Hence the length of day and night will be equal during these days on both the hemispheres .

These days are called equinoxes.

10.Compare the Summer Solstice and Winter Solstice in the Northern Hemisphere.

Summer Solstice	Winter Solstice				
The Sun vertically over the Tropic of Cancer ( $23\frac{1}{2}^{\circ}N$ )	The Sun vertically over the Tropic of Capricorn (23½°S)				
On June21	On December22				
Experiences the longest day and shortest night.	experiences the longest night and shortest day.				
11.Compare the spring season and autumn season .					
spring season	autumn season				
between March21 and June21	Between September 23 and December22				
the season of transition from winter to summer	the season of transition from summer to winter				
the atmospheric temperature increases	the atmospheric temperature decreases				

considerably.	considerably.
There is lengthening of day and shortening of night	There is shortening of day and lengthening of night
Sprouting of plants , blooming of mango trees and bearing buds on jackfruit trees	Trees shed their leaves.

### 12. Diagram that shows the apparent movement of the sun and Seasons



	The apparent	Seasons		
Months	movement of the sun	Northern hemisphere	Southern hemisphere	
From March 21 to	From the Equator to Tropic	Spring	Autumn	
June 21	ofCancer			
From June 21 to	From Tropic of Cancer	Summer	Winter	
September 23	to the Equator			
From September 23	From the Equator to	Autumn	Spring	
to December 22	Tropic of Capricon			
From December 22	From Tropic of Capricon	Winter	Summer	
to March 21	to the Equator			

### 13.What is Utharayanam?

The northward apparent movement of the Sun from Tropic of Capricorn to Tropic of Cancer is termed as 'Utharayanam'.

The duration of day in the northern hemisphere gradually increases during this period.

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### 14.What is'Dakshinayanam'?

The southward apparent movement of the Sun from Tropic of Cancer to Tropic of Capricorn is termed as 'Dakshinayanam'.

The duration of day in the southern hemisphere gradually increases during this period.

15.What is the duration of day and night in the south polar regions, when the Sun is respectively over the Northern Hemisphere and Southern Hemisphere?

When the Sun isover the Northern Hemisphere, the south polar regions experience continuous night for six months.

When the Sun is in the Southern Hemisphere, the south polar regions experience continuous daylight for six months.

### 16.

### Sun is in the Northern Hemisphere



### 17. The people of which Indian State can see the Sun rise first?

\*Arunachal Pradesh

### 18.Local time

\*The time estimated at each place based on the position of the sun is Local time.

### **19.How is time calculated?**

The angular distance of the Earth is= $360^{\circ}$ The time required to complete the  $360^{\circ}$ rotation=24 hrs = $24 \times 60$ minutes =1440minutes

Therefore the time required for the Earth to complete the rotation of 1°longitude =1440÷360 =4minutes

So in 4 minutes the Earth completes 1° rotation. Therefore in 60 minutes the Earth completes 15° rotation. That is,with 1hour,the Earth rotates 15°. So for every 15° changes ,the time change is 1 hour.

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20.As the Earth rotates from West to East time advances towards the east and recedes towards the west.

When 1° change towards the East the time increases by 4 minutes. When 1° change towards the west the time decreases by 4 minutes.



#### 21.Greenwich time (GMT)

\*The zero degree longitude.

\*Time is calculated worldwide based on this longitude.

- \*Hence this line is also known as the prime meridian.
- \*The local time at the prime meridian is known as the

Greenwich Mean Time (GMT).

### 26.Time zones

\*Based on the Greenwich Merdian,

the world is divided into 24 zones,

each with a time difference of one hour.

These are known as time zones.

#### 27.Standard time

\*Each country considers the longitude that passes through its middle as the standard meridian.

\*The local time at the standard meridian is

the standard time of that country.

### 27.Indian Standard Time (IST)

\*The 821/2°E longitude is the standard meridian of India.

\*The local time along this longitude is

the Indian Standard time.

### **28.International Date Line**

\*<mark>180</mark>° longitude

\*Used to determine day

\*Not a straight line

\*passes through sea Bering strait in Pacific Ocean

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29. The travellers who cross International Date Line from the east calculate the time by advancing it by one day and those who cross the line from the west deduct one day. While crossing from the east,time will be a day ahead. While crossing from the west,time will be a day behind.

30.What will be the time in Japan (135° East) when it is 11 pm on Monday in India?



• The longitudinal difference between India and Japan = 135° - 82°30

= 52°30

- Time difference for 1° longitude is 4 minutes.
- Time difference for 52°30 longitude = 521/2 ×4

= 210 minutes

= 3 hours 30 minutes

• As Japan is situated at the east of India, the time in Japan would be 3 hours and 30 minutes ahead of that time in India.

• When it is 11 pm on Monday in India, the time in

Japan = 11 pm Monday + 3 hours 30 minutes = Tuesday 2.30 am



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# UNIT3 Human resource development in India

### **1.Human resource**

\*The manpower which can be utilised in the production sector.

### 2.Human resource development is the development of man's physical and mental abilities through education, health care, and training.

### **3.Different levels of human resource development.**

\*Individuals-take effort to develope their own skills

\*Family-creates an environment for the development of the potential of the individuals.

\*Various institutions and agencies-provide facilities for education and training.

\*Nation-provides the necessary facilities to develop the skills.

### 4.Features of human resource



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5. What are the qualitative factors that improve the labour potential?

- Education
- Healthcare
- Training
- Social capital

Social capital is important because it represents the productive benefits of sociability. ... This is because social capital is the shared values, norms, trust, and belonging that make social exchange possible. Our society, economy, institutions, and political system could not exist without social capital.

# 6.What are the advantages in developing human resource?



# 7. How education helps in the development of a country?



# 8. **\*Literacy rate** refers to the percentage of population that can read and write with comprehension.

### 9. RTE Act2009

Our country has made education a fundamental right and has passed the Right to Education Act (RTE Act) in 2009. The constitution ensures the goal of "elementary education for all" through RTE.

10.What are the problems still exist in the education sector of India which need to be solved?

- drop out from schools without completing primary education.
- There is a lack of availability of basic facilities.
- Quality of education has to be improved.

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# **11.** What are the projects implemented in India to develop education and skills?

Projects	Goals
Integrated Child Development Scheme (ICDS)	<ul> <li>To ensure integrated development of children upto 6 years</li> <li>To provide healthcare for pregnant and lactating women</li> </ul>
Samagra Shiksha Abhiyan (SSA)	<ul> <li>To ensure universal education to all up to higher secondary level</li> <li>To ensure quality and equity</li> <li>To promote the vocational education strenthen</li> </ul>
Samagra Shiksha was formed by integrating Sarva Shiksha Abihyan (SSA) and Rashtriya Madhyamik Shiksha Abhiyan (RMSA)	<ul> <li>To the teacher training institutes like SCERT/DIET</li> <li>.</li> </ul>
Rashtriya Uchthal Shiksha Abhiyan (RUSA)	<ul> <li>To increase the access to higher education</li> <li>To improve the quality of higher education</li> </ul>
National Skill Development and Monetary Reward Scheme	<ul> <li>To improve the working skills of the youth</li> <li>To ensure the availability of people with employable skills</li> </ul>

12. How healthy persons can participate in the progress of a country?

- **Production increases** with the increase in efficiency and the number of working days.
- Natural resources can be utilised properly.
- Medical expense can be reduced, thereby reducing the government's expenditure.
- Economic development is possible through increase in production

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13.List the facilities to be ensured for healthcare

- Availability of nutritious food
  Availability of clean water
  Preventive measures
  Cleanliness
- Medical facilities

• Ensuring of leisure and entertainment

• Healthy environment

14. The governmental institutions in the medical sector.

- **Medical Colleges**
- **District Hospitals**
- **Community Health Centres**
- **Primary Health Centres**
- **Health Sub Centres**

15. The following institutions function to make available quality health services to all.

<b>NRHM</b> -National Rural Health Mission	<b>NUHM</b> -National Urban Health Mission
	operates in the urban slums and other marginalised people in towns with a population of more than 50,000.

**16.natural resources+human resource=economic development of a country** 

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# **UNIT 07**

# India: The Land of Diversities



# **Location of India**

Latitude : 8°4' to 37°6' North Longitude : 68°7' to 97°25' East

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**1.Physical divisions of India** 

\*Northern Mountain Ranges

\* Northern plain

**\*The Peninsular Plateau** 

\*coastal plains and islands

2.Northern Mountain Ranges

\*The mountain ranges starting from the north west of Kashmir and extending up to the eastern boundary of India \*function as a great wall



3.



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Trans Himalayas	Himalayas	Eastern Highlands
(a) Karakoram (b) Ladakh (c) Zaskar	(i) Himadri (ii)Himachal (iii)Siwaliks	1.Patkai Bum 2.Naga hills 3.Garo, Khasi, and Jaintia hills 4.Mizo hills

## **4.Trans Himalayas**

\*The average height is 6000 metres. \*the highest peak in India-Mount K2 (8661m) OR Godwin Austin is in the Karakoram range.

## 5. Himalayas

\*between trans himalayas and eastern highlands

\*about 2400 kilometres length

\*Many of the world's highest peaks situates

\* The height tend to decrease towards the east.

\*The width is about 150 kilometre in Arunachal Pradesh and about 400 kilometre in the Kashmir region.

\*extending over 5 lakh square kilometres

\*comprises of three parallel mountain ranges

\*Oak, chestnut, maple etc. are seen at an altitude of 1000 to 2000 metres and above this are the coniferous trees such as deodar, spruce, etc.

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Himadri H	Iimachal	Siwaliks
*The highest mountain range.*S the highest mountain range.*Average altitude is 6000 metres.*A metres.*Origin of the rivers Ganga*S and Brahmaputra.and Brahmaputra.a so	Situated to the south of the Himadri Average altitude is 3000 metres The hill stations like Shimla, Darjeeling,etc. are situated in the outhern slopes of his range.	<ul> <li>*Situated to the south of the Himachal.</li> <li>*Average altitude is 1220 metres.</li> <li>* As the Himalayan rivers cut across this range, its continuity breaks at many places.</li> <li>Broad flat valleys seen along these ranges are called Duns.eg-Dehradun</li> </ul>

## **6.**Eastern Highlands

\*at an altitude of 500 to 3000 metres
\*also known as Purvachal
\*Cherrapunji, the place receiving the highest rainfall in the world is situated here.
\*covered by dense tropical rainforests.

7. The soil generally found in the northern mountain region is fertile mountain soil.

### 8. Significance of the Northern Mountains

**\*protect us from foreign invasions** from the north since ancient times.

\*Block the monsoon winds and cause rainfall throughout North India.

**\*Prevent the dry cold winds** blowing from the north from entering India during winter.

\*Caused the emergence of diverse flora and fauna. \*Source region of rivers. \*rich sources of fresh water \*rich forest resources

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Himalayan rivers	Origin	Length	Tributaries	States through which it flows	Sea which it joins
Indus	Manasarovar lake in Tibet	About 2880 Km (Only 709 Km of this river flows through India)	• Jhelum •chenab •Ravi •Beas •Sutlej	•Jammu and kashmir •Himachal pradesh • Punjab	Arabian Sea
Ganga	Gaumugh caves in the Gangothri glacier	About 2500 Km	.Yamuna .Son •Ghaghara •kosi • Gandak	•Uttarakhand •Uttarpradesh • Rajasthan .Madhyapradesh .Bihar .West Bengal .Chhattisgarh .Jharkhand	Bay of Bengal
Brahmaputra	Chema- yung-dung glacier in Tibet	About 2900 Km(Only 725 Km in India)	.Tista .Manas .Subansiri .Luhith	•Arunachal Pradesh •Assam • Sikkim .West Bengal	Bay of Bengal

## **9.Himalayan rivers**

## **10.The Peninsular Plateau**

Entire portions of 1.Madhya Pradesh 2.Jharkhand 3.Chhattisgarh

as well as parts of 4. Maharashtra 5. Karnataka 6. Tamil Nadu

7. Telengana 8. Odisha and 9. West Bengal together form a plateau

known as the peninsular plateau.

**11.**The peninsular plateau which is **made of hard crystalline rocks** forms the **oldest and the most extensive** physical division of India.

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## 12. Major features of the peninsular plateau

### **Mountains**

- 1.Aravalli ranges
- 2.Vindhya Range
- **3.Satpura Range**
- 4.Western ghats
- **5.Eastern ghats**

## Plateaus

- 1.Malwa Plateau
- 2.Chota Nagapur Plateau
- **3.Deccan plateau**

# Peninsulas

1.Kachchh

2.Kathiawar

**13.Other features** 

\*The undulating physical division of India

\*Extends about 15 lakh square kilometres

\*It includes varied topography such as mountains, plateaus, and valleys.

\*The highest peak is the Anamudi (2695 m) situated in the Idukki district of Kerala.

**\*The store house of minerals**-it holds numerous deposits of diverse minerals **\*Black soil(black cotton soil)** 

**Red soil** (soil formed by the weathering of igneous and metamorphic

rocks is comparatively less fertile . The presence of iron gives

red colour to this soil)

**Laterite soil**(formed in the regions with monsoon rains and intermittent hot seasons.)

\*This region is mainly made of igneous rocks, named basalt

\*The peninsular plateau is also the source region of many rivers

1	4.

West flowing rivers	East flowing rivers
1.Narmada 2.Tapti	1.Mahanadi 2.Godavari 3.Krishna 4.Cauvery

15. Name the peninsular rivers which are tributaries of Ganga and Yamuna. Yamuna \*Chambal \*Bettuva \*Ken Ganga \*son

16.Length,	and	tributaries	of	major	peninsu	lar	rivers
ronzengen,	unu	ti io atai ico		major	Pennisa		III CI U

River	Origin	Approximate length	Major tributaries	States through which it flows	Sea which it joins
Mahanadi	Maikala Ranges (Madhya Pradesh)	857 Km	Ib, Tel	•	•
Godavari	Western Ghats (Nasik district of Maharashtra)	1465 Km	Indravathi, Sabari	•	•
Krishna	Western Ghats (Mahabaleswar in Maharashtra)	1400 Km	Bhima, Thungabhadra	•	•
Kaveri	Brahmagiri Ranges in Western Ghats (Karnataka)	800 Km	Kabani, Amaravathi	•	•
Narmada	Maikala Ranges (Chhattisgarh)	1312 Km	Hiran, Banjan	•	•
Tapti	Muntai Plateau (Baitul distruct in Maharashtra)	724 Km	Anar, Gima	•	•

# **17.Godavari** is the longest among the peninsular rivers.

# 18.The highest Waterfalls is the Jog Falls (225metres) in the Sharavathi River in Karnataka.

**19.Most of the peninsular rivers enter the plains by forming** waterfalls. Why is it so?

\*Peninsular rivers flow through peninsular plateau.

\*Sides of plateaus are comparatively higher than the plains around it.

\*When the rivers flow from plateaus to plains they make waterfalls.

Himalayan rivers	Peninsular rivers
• Originate from the Himalayan mountain ranges	• Originate from the mountain ranges inthe peninsular plateau.
• Extensive catchment area	<ul> <li>Comparatively smaller catchment area</li> </ul>
• Intensive erosion	<ul> <li>Intensity of erosion is less</li> </ul>
• <b>Create gorges</b> in the mountain	
region and meander in plains	<ul> <li>Do not create deep valleys as they flow through hard and resistant rocks</li> </ul>
<ul> <li>High irrigation potential</li> </ul>	
	<ul> <li>Less irrigation potential</li> </ul>
<ul> <li>Navigable along the plains</li> </ul>	
	• Potential for inland navigation is
	low

20.Compare the characteristics of the Himalayan and Peninsular rivers.

# **21.coastal plains**

\*Coast line is 6100 kilometres extending from the Rann of Kutchh in Gujarat to the Ganga-Brahmaputra delta \*The coastal plain of India can be divided into two.

Western coastal plain	Eastern coastal plain
Between the Arabian Sea and the	Between the Bay of Bengal and the
Western Ghats	Eastern Ghats
• From the Rann of Kutchh to Kanyakumari	· From the Sundarban delta region to
	Kanyakumari
Comparatively narrow	Comparatively wide
· Can be divided into Gujarat coast,	• Can be divided into north Zircar plain and
Konkan coast, and Malabar coast	Coromandal coast
· Backwaters and esturies are seen	<ul> <li>Delta formation takes place</li> </ul>
•	•



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