

NDA-CDS 2 2024

GK

LIVE

GEOGRAPHY

REVISION

CLASS 1



RUBY MA'AM



13 August 2024 Live Classes Schedule

8:00AM	13 AUGUST 2024 DAILY CURRENT AFFAIRS	RUBY MA'AM
9:00AM	13 AUGUST 2024 DAILY DEFENCE UPDATES	DIVYANSHU SIR

SSB INTERVIEW LIVE CLASSES

9:00AM	OVERVIEW OF GROUP TASKS	ANURADHA MA'AM
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NDA 2 2024 LIVE CLASSES

11:00AM	GK - GEOGRAPHY REVISION - CLASS 1	RUBY MA'AM
12:00PM	PHYSICS REVISION - CLASS 7	NAVJYOTI SIR
1:00PM	MATHS REVISION - CLASS 7	NAVJYOTI SIR
2:00PM	BIOLOGY REVISION - CLASS 7	SHIVANGI MA'AM
5:30PM	ENGLISH - REVISION - CLASS 3	ANURADHA MA'AM

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5:30PM	ENGLISH - REVISION - CLASS 3	ANURADHA MA'AM



Q. Consider the following statements about Light year :

1. Light year is a unit for measurement of very large distances.
2. Light year is a unit for measurement of very large time intervals.
3. Light year is a unit for measurement of intensity of light.

Which of the statements given above is/are correct ?

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 1 only

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- (a) 1, 2 and 3
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- (c) 1 and 2 only
- (d) 1 only

Answer: D

Q. Which one of the following planets has the highest density ?

- (a) Mercury
- (b) Venus
- (c) Jupiter
- (d) Earth

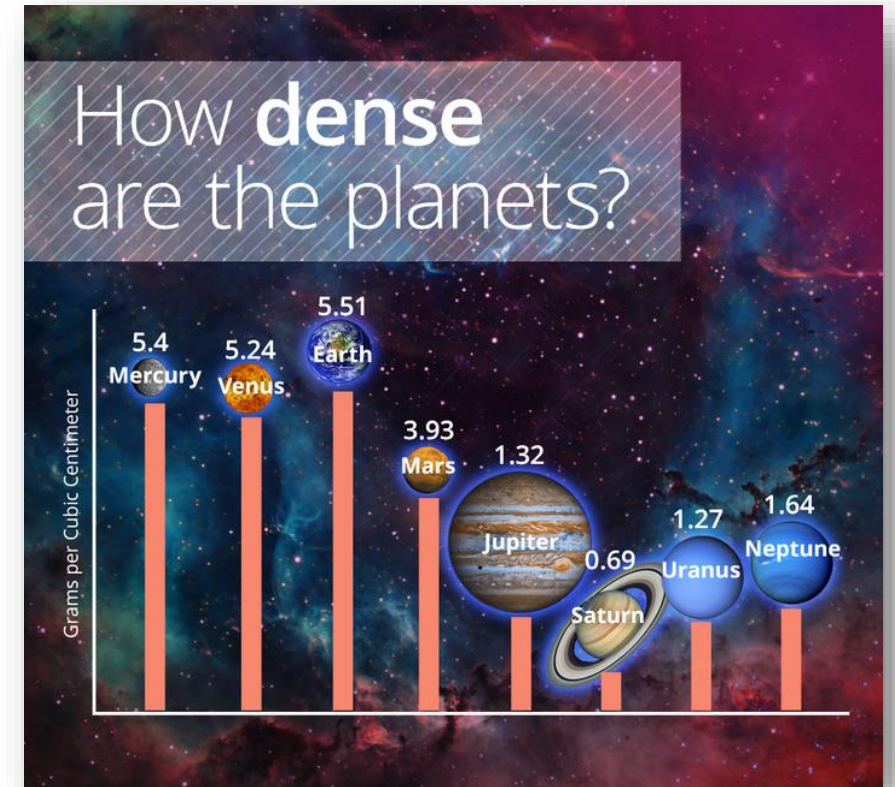
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- (a) Mercury
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- (d) Earth

Answer: D

Explanation:

- **Earth Has The Highest Density Of Any Planet In The Solar System at 5.514 G/Cm³.**
- This Is Considered The Standard By Which **Other Planets' densities Are Measured.**
- The Combination Of **Earth's Size, Mass, And Density** Also Results In A **Surface Gravity Of 9.8 M/S²**



Q. The Asteroid Belt Is Found Between Which Of The Following?

(A) Earth And Mars

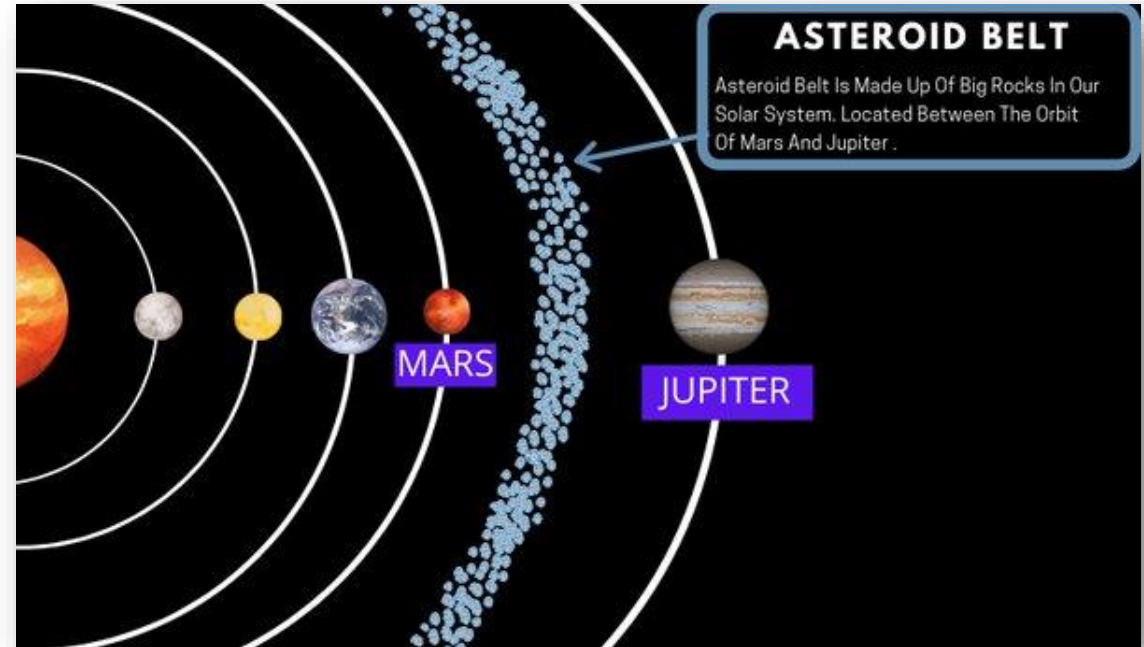
(B) Jupiter And Saturn

(C) Mars And Jupiter

(D) Saturn And Uranus

Q. The Asteroid Belt Is Found Between Which Of The Following?

- (A) Earth And Mars
- (B) Jupiter And Saturn
- (C) Mars And Jupiter**
- (D) Saturn And Uranus



Q. The Planet Which Is Called Twin Sister Of The Earth Is

(A) Mercury

(B) Venus

(C) Mars

(D) Uranus

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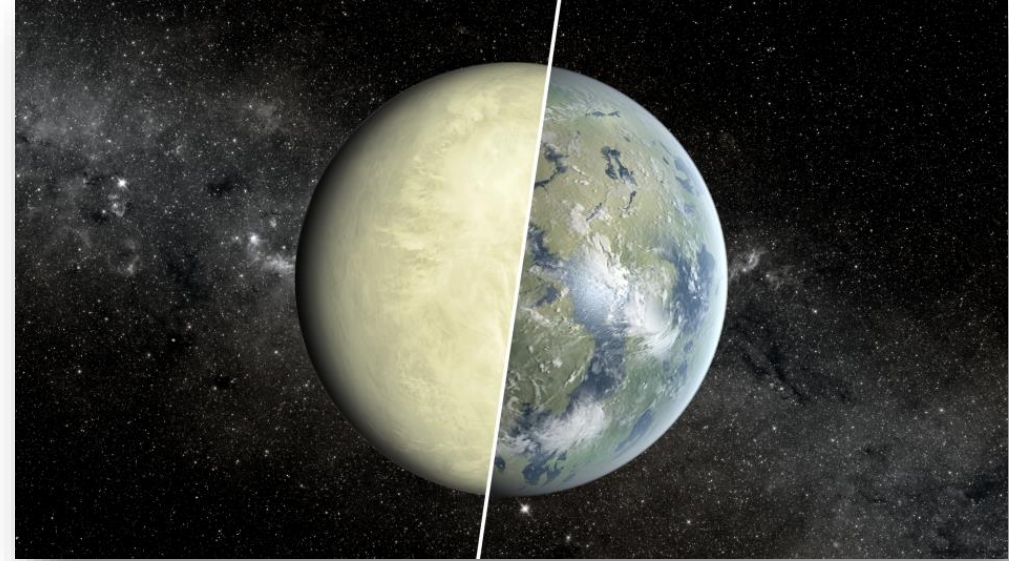
(B) Venus

(C) Mars

(D) Uranus

Explanation :

- **Venus Is Known As The Earth's Twin**
Because Of Its **Similar Size,**
- **Chemical Composition And Density.**
- Due To Its **Toxic Atmosphere, Venus Is Not Habitable**



Q. Consider The Following Statements:

1. Our Solar System Is Located In The Orion Arm Of The Milky Way Galaxy, About Two-third Of The Way Out From The Centre.

2. The Solar System Formed From An Interstellar Cloud Of Dust And Gas Or Nebulla About 4.6 Billion Years Ago.

Which Of The Above Statements Is/Are Correct?

(A) 1 Only (B) 2 Only (C) Both 1 And 2 (D) Neither 1 Nor 2

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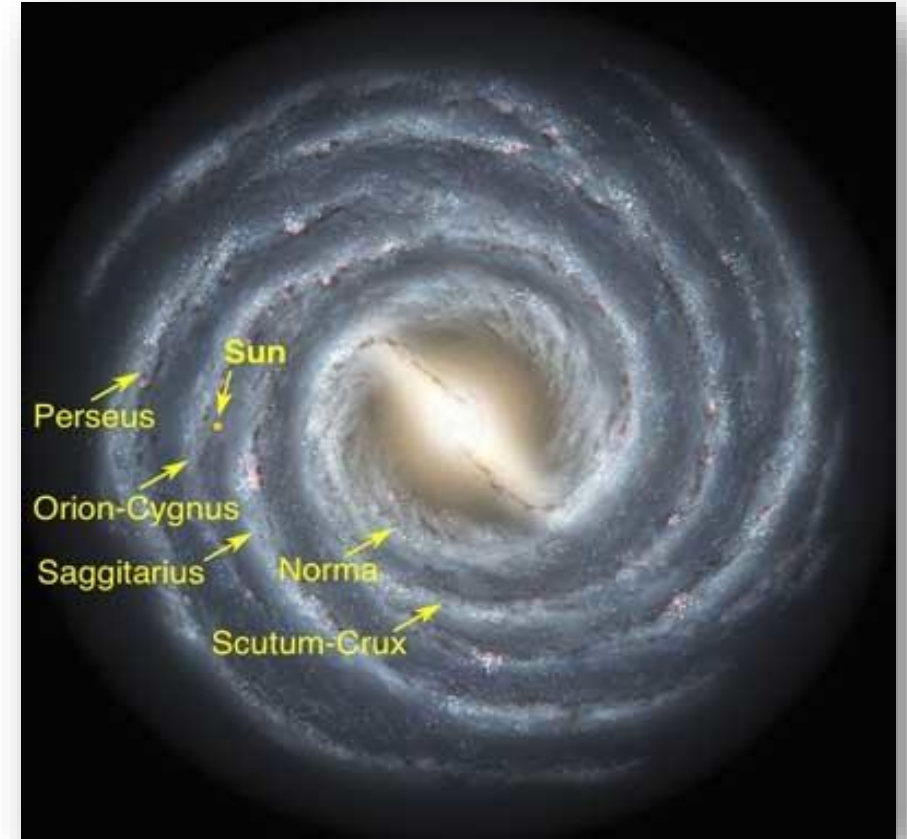
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Explanation :

- Our Solar System Is Located In The **Orion Arm** Of The **Milky Way Galaxy**, About **2/3rd** Of The Way Out From The **Centre**.
- The **Sun** Is About **26,000 Light-years** From The **Center Of The Milky Way Galaxy**, Which Is About **80,000 To 120,000 Light-years Across** (And Less Than **7,000 Light-years Thick**).



Q. Consider The Following Statements:

1. Only Two Planets Venus And Uranus Revolve Around The Sun From East To West i.e., Clockwise.

2. While Other Planets Revolve Around The Sun From West To East I.E., Anti-clockwise.

Which Of The Above Statements Is/Are Correct?

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Q. Consider The Following Statements:

1. The Sun Is The Heart Spot Of The Solar System Which Is The Source Of Energy Of All Organism Of The Earth.

2. The Innermost Layer Of The Sun Is Called Corona.

Which Of The Above Statement(s) Is/Are Correct?

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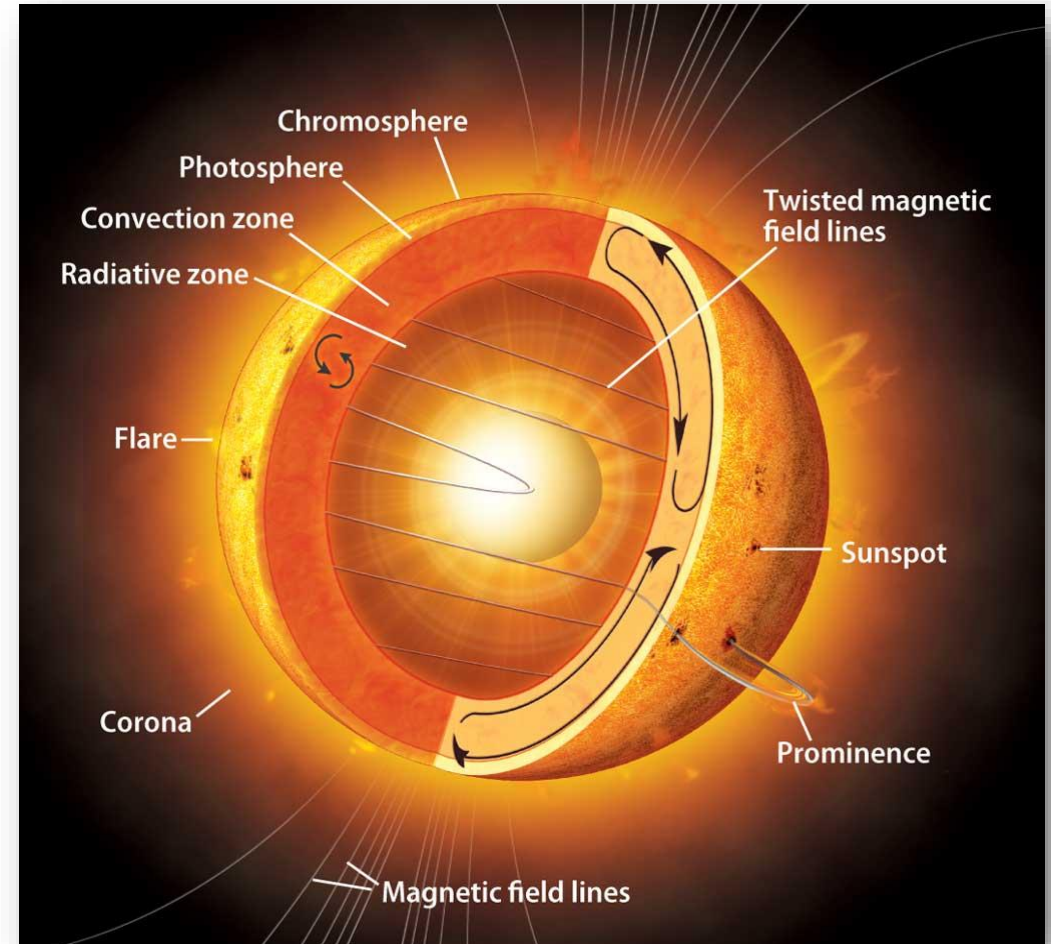
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Explanation :

- The **Sun Is The Heart Spot Of The Solar System Which Is The Source Of Energy Of All Organisms On Earth.**
- The **Corona Is The Outermost Layer Of The Sun, Starting At About 2100 KMs Above The Solar Surface (The Photosphere).**



Q. Which One Of The Following Is The Correct Sequence In Increasing Order (Diameter) ?

- (A) Mars - Venus - Earth - Mercury - Uranus
- (B) Mercury - Mars - Venus - Earth - Uranus
- (C) Mercury - Mars - Venus - Uranus - Earth
- (D) Venus - Mercury - Mars - Earth - Uranus

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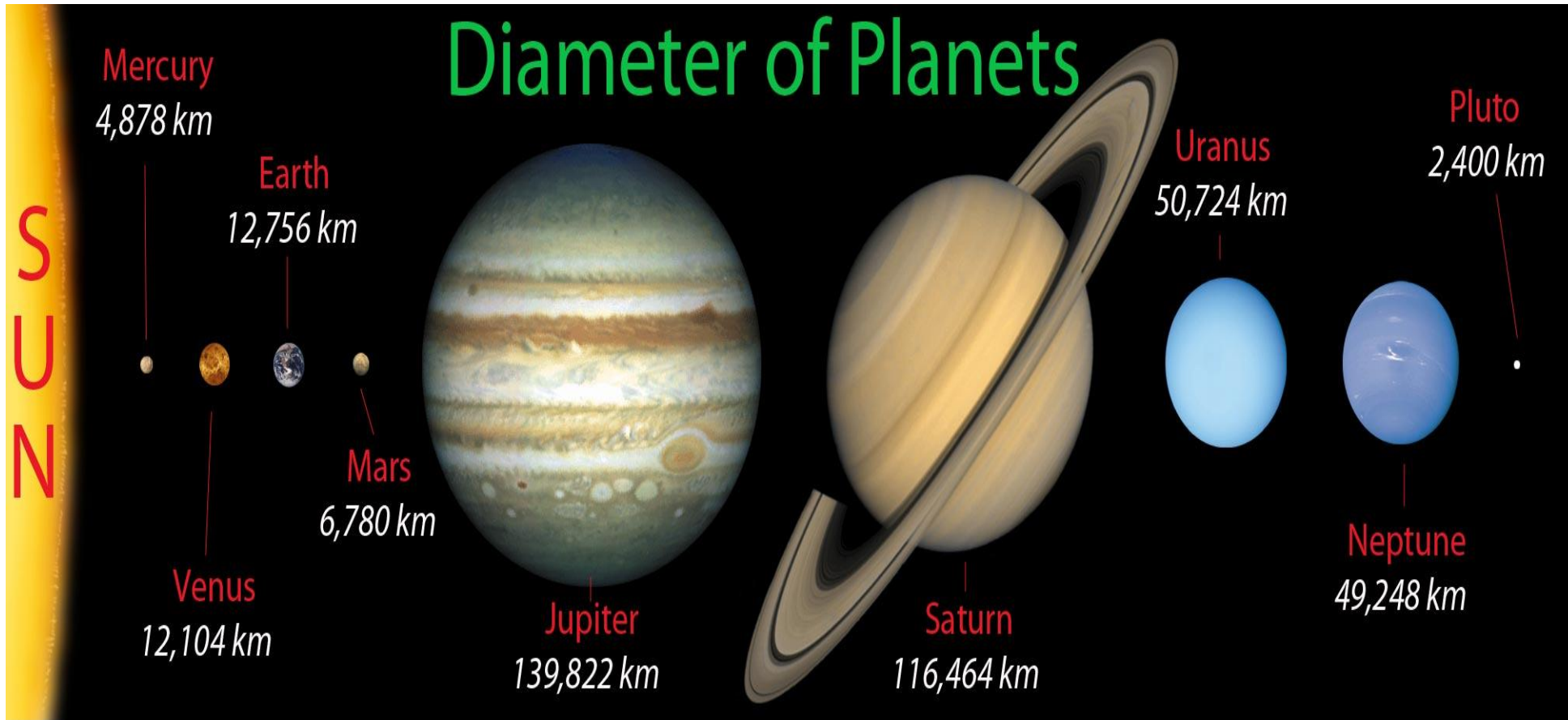
(A) Mars - Venus - Earth - Mercury - Uranus

(B) Mercury - Mars - Venus - Earth - Uranus

(C) Mercury - Mars - Venus - Uranus - Earth

(D) Venus - Mercury - Mars - Earth - Uranus

Explanation:



Q. The Mean Distance From The Sun To The Earth Is Called A/An

(A) Light Year

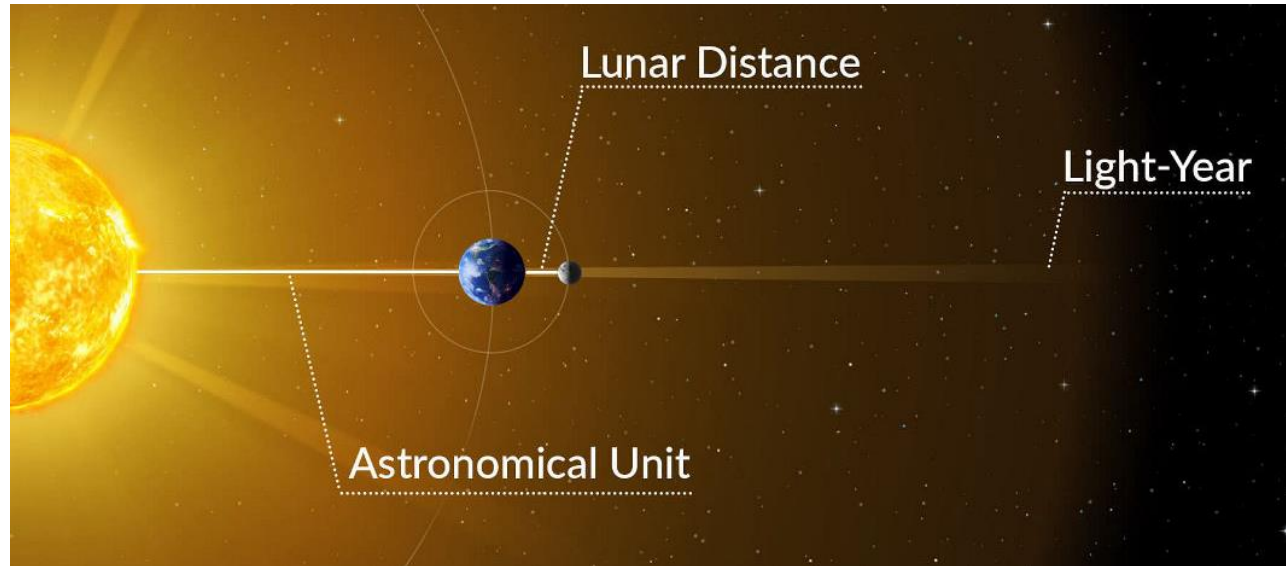
(B) Parallax Second

(C) Astronomical Unit

(D) Angstrom

Q. The Mean Distance From The Sun To The Earth Is Called A/An

- (A) Light Year
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- (C) Astronomical Unit**
- (D) Angstrom



Explanation:

An **Astronomical Unit** Is The **Mean Distance Between The Earth And The Sun. 1 Au = 149,597,870.700 Kilometers.**

Q. The Brightness Of A Star Depends On Its

- (A) Size And Temperature Only
- (B) Size And Distance From The Earth
- (C) Size, Temperature And Mass
- (D) Size, Temperature And Distance From The Earth

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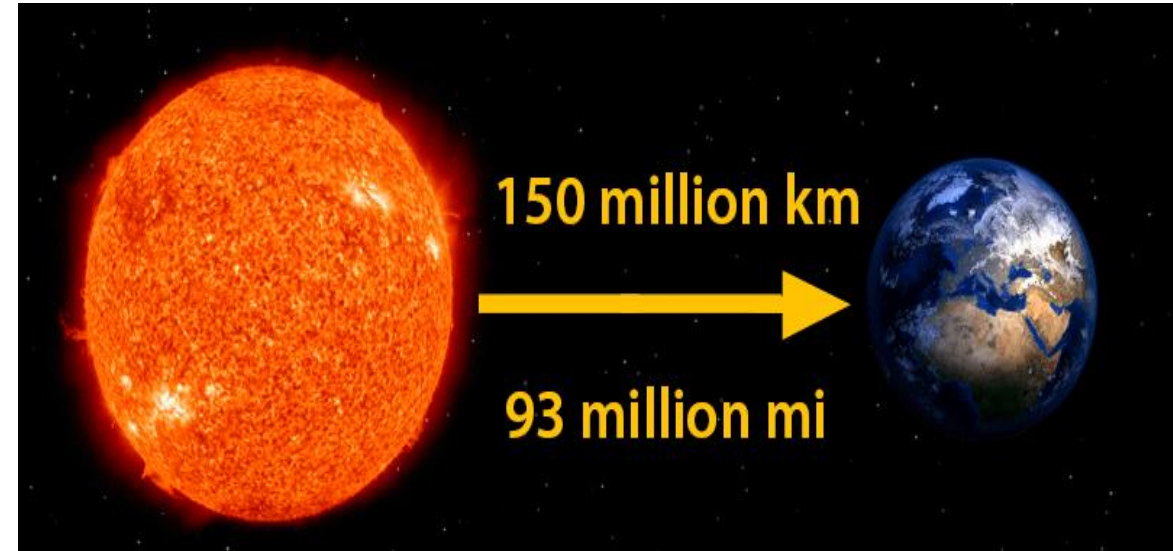
(B) Size And Distance From The Earth

(C) Size, Temperature And Mass

(D) Size, Temperature And Distance From The Earth

Explanation:

- The **Brightness Of A Star** Depends On Its **Composition i.e., Size And Temperature** (Energy Light Radiation E.G. X-ray, Etc.) And **How Far It Is From The Planet.**



Q. Solar eclipse occurs when

- (a) Earth comes between Sun and Moon
- (b) Moon is at right angle of Earth
- (c) Moon come between Sun and Earth
- (d) Sun comes between Moon and Earth

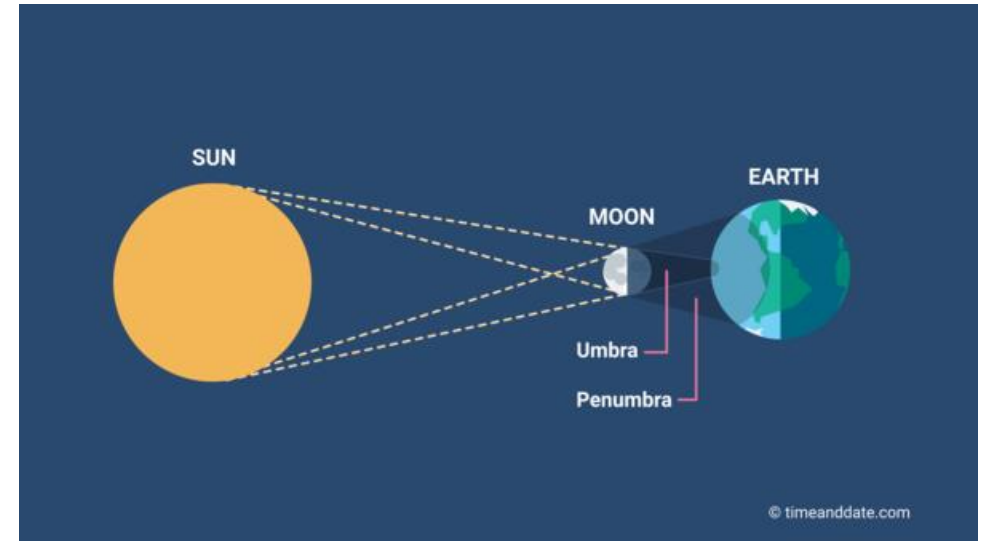
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Q. If the plane of the earth's equator were not inclined to the plane of the earth's orbit,

- (a) The year would be longer
- (b) The winter would be longer
- (c) There would be no change of seasons
- (d) The summers would be warmer

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If the plane of the Earth's Equator were not inclined to the plane of its Orbit then, you could not have expected any change in seasons to taking place. The Northern and Southern part of Earth experience opposite seasons. If Equator is not inclined (which means tilting) then there will be no variation in the seasons.

Q. Consider The Following Statements Of Terrestrial Planets.

1.The Terrestrial Planets Were Formed In The Close Vicinity Of The Parent Star Where It Was Too Warm For Gases To Condense To Solid Particles.

2.The Terrestrial Planets Are Larger Than Jovian Planets And Their Lower Gravity Could Hold The Escaping Gases.

Choose The Correct Statement.

A. Only 1

B. Only 2

C. Both 1 & 2

D. None Of The Above

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Q. Which Of The Following Statements Is Incorrect Regarding The Formation Of Stars?

(a) Galaxy Starts To Form By Accumulation Of Helium Gas

(b) The Formation Of Stars Is Believed To Have Taken Place Some 5-6 Million Years Ago

(c) The Initial Density Difference In the Early Universe Is The Core Reason For Star Formation

(d) Both A & B

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Q. What Are 'Planetesimals' Associated With Theories Of Planet Formations?

(a) They Are Formed By The Cohesion Of Small Rounded Bodies Of Condensed Gas Cloud With The Matter Around The Core.

(b) They Are A Combined Object Formed Around The Comets And Meteorites.

(c) Large Number Of Dwarf Planets Form One Planetesimal.

(d) None Of These

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Q. The Earth While Rotating Around The Sun, Always Keeps Its Axis Pointed Towards Which One Of The Following?

(a) Venus

(b) The Moon

(c) The Pole Star

(d) The Saturn

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Q. Which one of the following conditions is most relevant for the presence of life on Mars?

a) Occurrence of ice caps and frozen water

b) Occurrence of ozone

c) Thermal conditions

d) Atmospheric composition

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Explanation : Mars is the only planet with similar day time temperatures and an atmosphere similar to earth. The most relevant condition for presence of life on Mars is occurrence of ice caps and frozen water.

Q. The tail of comet is directed away from the Sun, because

a) The radiation emitted by the Sun exerts a radial pressure on the comet throwing its tail away from the Sun

b) The tail of the Comet always exists in the same orientation

c) As the Comet rotates, the lighter mass of the Comet is attracted by some stars situated in the direction of its tail

d) As the Comet rotate around the Sun, the lighter mass of Comet is pushed away due to centrifugal force alone

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Q. The distance of Moon from the Earth is

a) 350 thousand kms.

b) 446 thousand kms.

c) 300 thousand kms.

d) 364 thousand kms.

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- a) 350 thousand kms.
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The distance of the moon from the Earth is 364 thousand km. The Moon is the only natural satellite of the Earth and the fifth largest moon in the Solar System. It is the largest natural satellite of a planet in the Solar System relative to the size of its primary, having 27% the diameter and 60% the density of Earth, resulting in $1/81$ its mass.

Q. Consider the following statements regarding asteroids:

(1) Asteroids are rocky debris of varying sizes orbiting the Sun.

(2) Most of the asteroids are small but some have diameter as large as 1000 km.

(3) The orbit of asteroids lies between orbits of Jupiter and Saturn.

Which of the statements given above are correct?

a) 1 and 3 only

b) 1, 2 and 3

c) 2 and 3 only

d) 1 and 2 only

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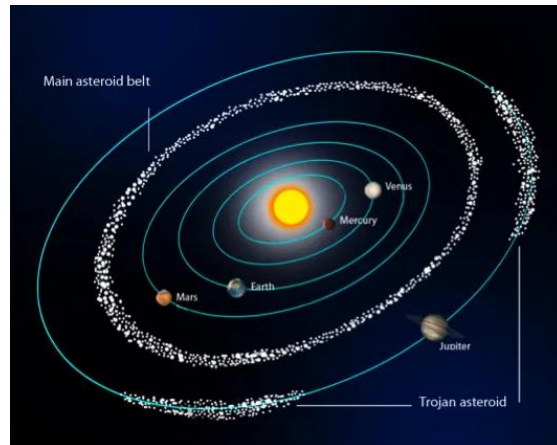
b) 1, 2 and 3

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Explanation :

Asteroids are rocky debris of varying sizes orbiting the Sun. They are generally small but some have a diameter of 1000 km. Asteroids are minor planets whose orbits lie between Jupiter and Mars. These are said to be the fragments of a larger planet disrupted long ago. Their number is estimated to be 30,000 pieces of rocky debris out of which more than half are known.



Q. Assertion (A): Existence of human life on Venus is highly improbable.

Reason (R): Venus has extremely high level of carbon dioxide in its atmosphere.

Code

a) (A) is true, but (R) is false

b) (A) is false, but (R) is true

c) Both (A) and (R) are true, but (R) is not the correct explanation of (A)

d) Both (A) and (R) are true and (R) is the correct explanation of (A)

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Q. The outermost layer of the sun is called

a) Lithosphere

b) Corona

c) Photosphere

d) Chromosphere

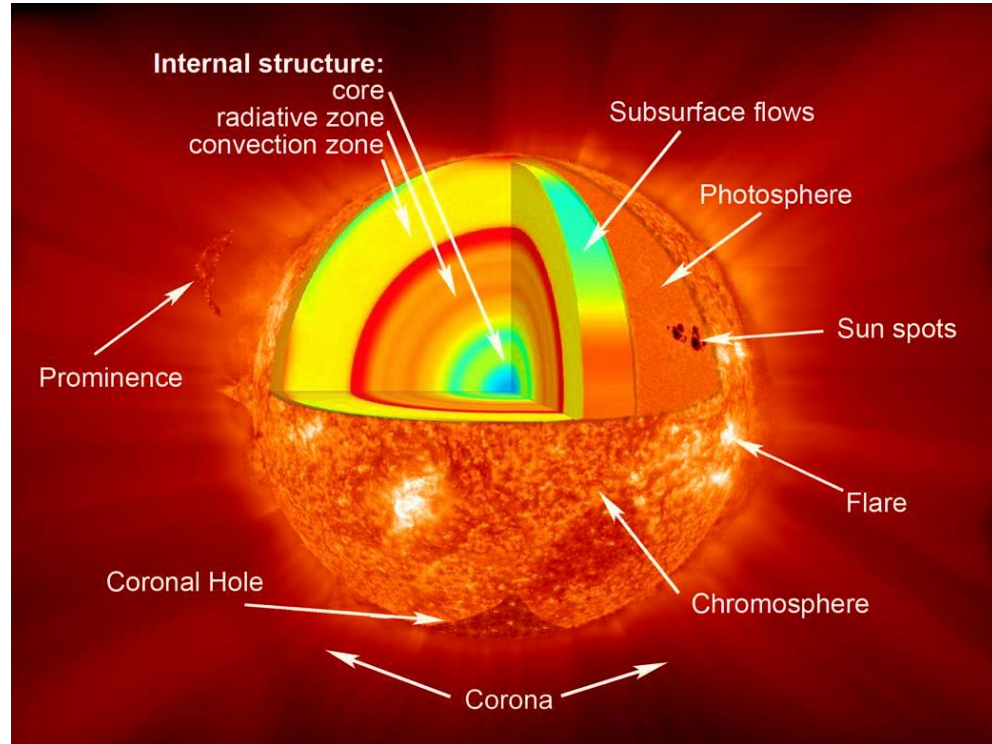
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Q. Which one of the following is *not* an igneous rock ?

- (a) Granite
- (b) Slate
- (c) Basalt
- (d) Gabbro

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Igneous or Sedimentary rock	Influence	Metamorphosed rock
Granite	Pressure	Gneiss
Clay, Shale	Pressure	Schist
Sandstone	Heat	Quartzite
Clay, Shale	Heat	Slate ==> Phyllite
Coal	Heat	Anthracite ==> Graphite
Limestone	Heat	Marble

ANSWER: B

Q. Which of the following statements is/are correct ?

1. Hypocenter is the point on the surface of the Earth, nearest to the focus.
2. Velocity of earthquake waves is higher in denser materials.
3. P waves move faster and are the first to arrive at the surface of the Earth.

Select the correct answer using the code given below :

- (a) 1 and 2
- (b) 2 and 3
- (c) 1 and 3
- (d) 3 only

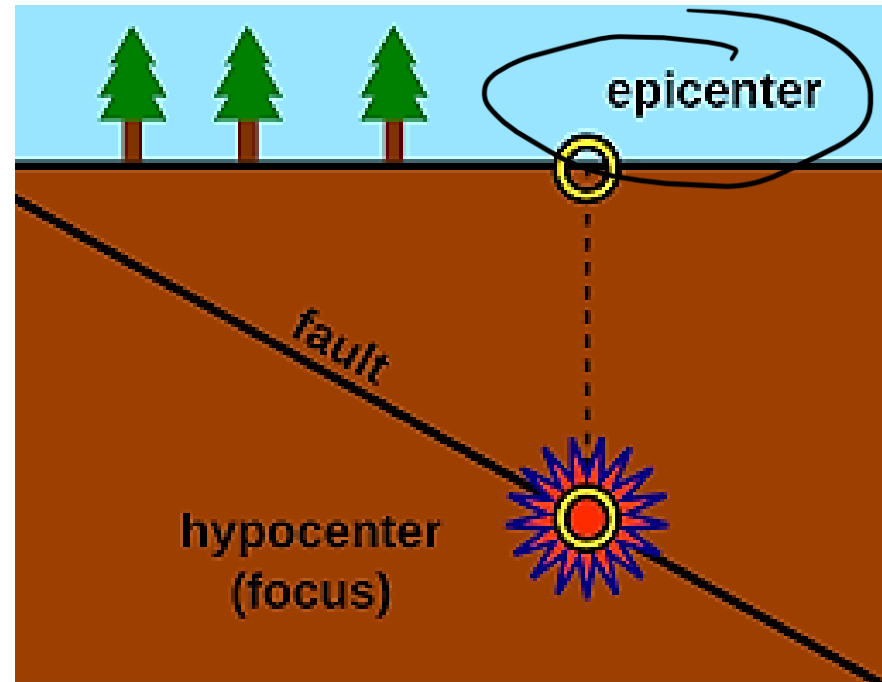
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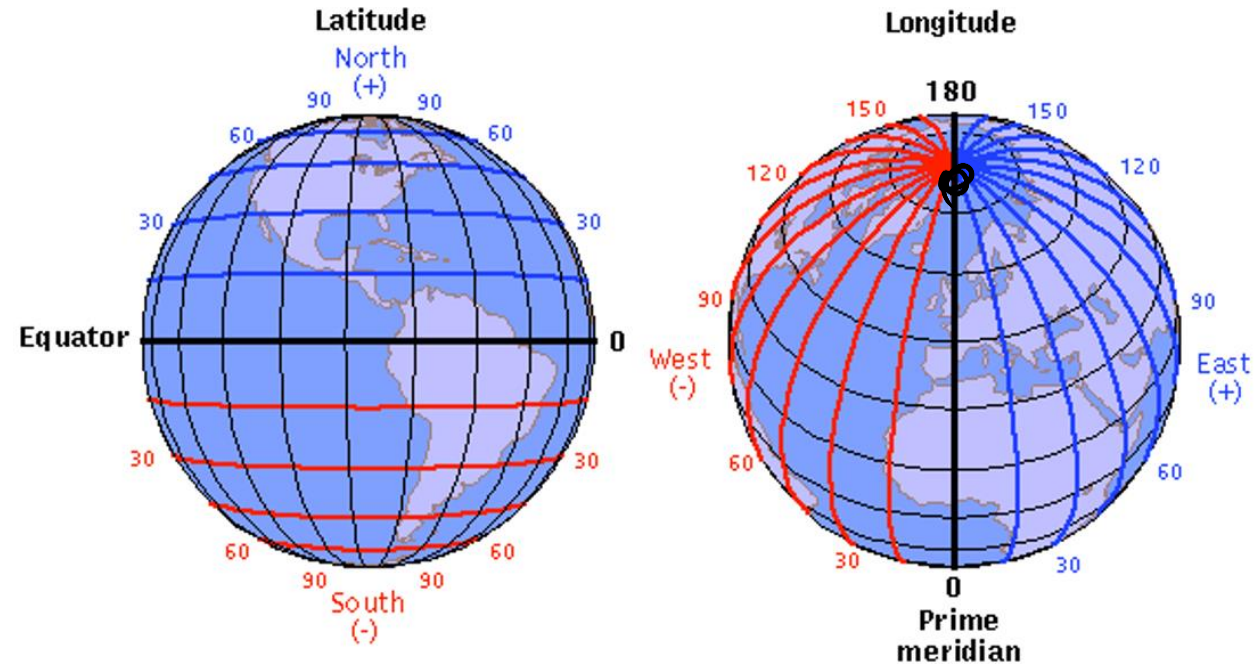


Q. Consider the following statements :

1. Distance between the longitudes becomes zero on North Pole and South Pole.
2. Distance between the longitudes is maximum on the Equator.
3. Number of longitudes is more than number of latitudes.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3



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ANSWER: D

A Degree Of Longitude Is Widest At The Equator With 69.172 Miles (111.321 Kilometers).

The Distance Gradually Shrinks To Zero As They Meet At The Poles.

The Total Number Of Latitudes Is 180 And The Total Number Of Longitudes Is 360

Q. Which one of the following is the lowermost/innermost intrusive igneous rock ?

(a) Laccolith

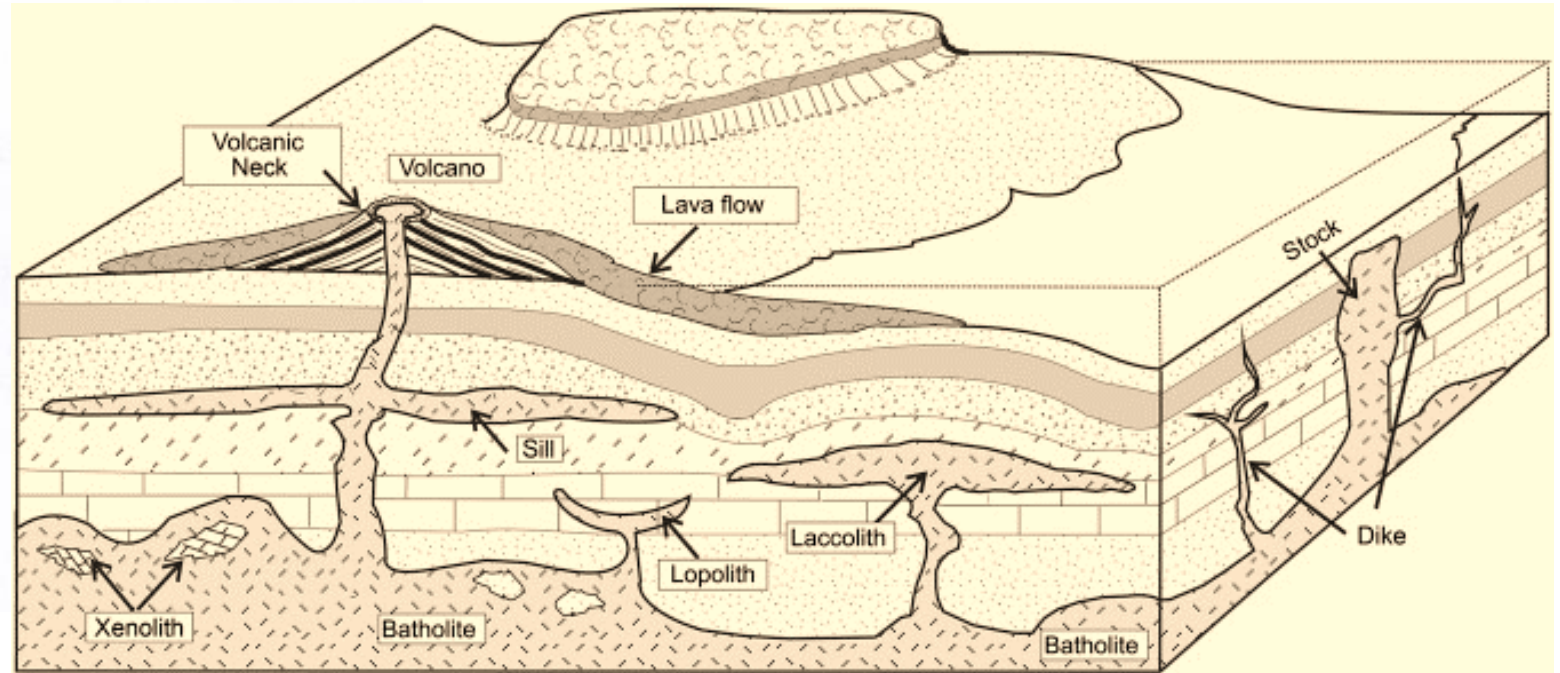
(b) Batholith

(c) Lopolith

(d) Phacolith

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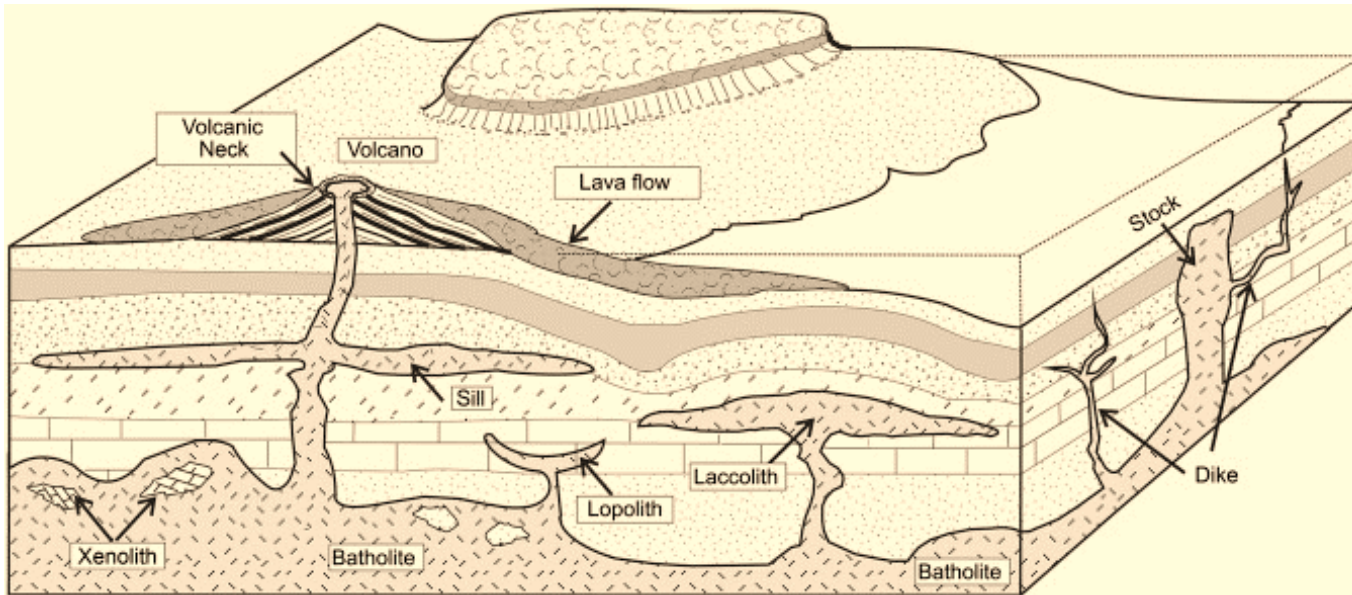


ANSWER: B

Batholiths:

These Are Huge Mass Of Igneous Rocks, Usually Of Granite.

These Rock Masses Formed Due To Cooling Down And Solidification Of Hot Magma Inside The Earth.



Q. The Tropic of Cancer passes through how many coastal and landlocked States of India, respectively?

(a) 1 and 7

(b) 2 and 6

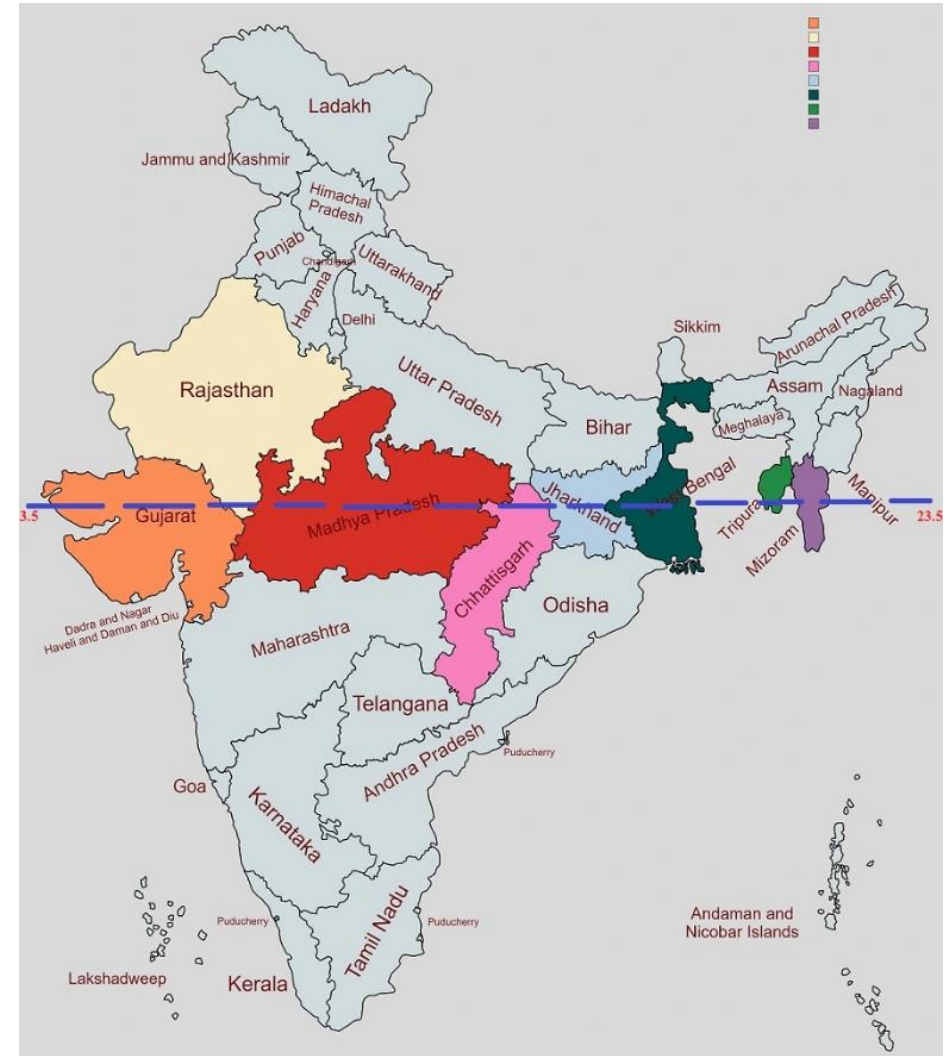
(c) 2 and 5

(d) 3 and 5

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- (a) 1 and 7
- (b) 2 and 6
- (c) 2 and 5
- (d) 3 and 5

ANSWER: B



Q. If it is 10:00 a.m. at Greenwich Mean Time (GMT), then what will be the time at 90° E longitude?

(a) 5:00 a.m.

(b) 4:00 a.m.

(c) 3:00 p.m.

(d) 4:00 p.m.

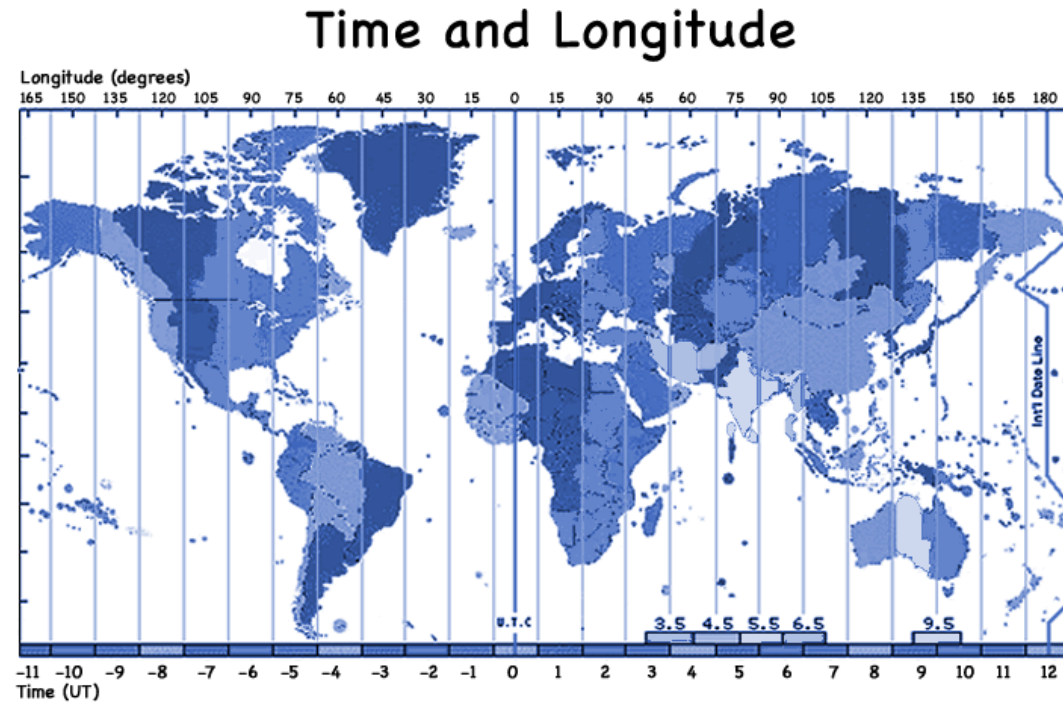
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ANSWER: D

Q. Which of the following statements about volcanoes are correct?

1. The strength of a volcano is measured by the Volcanic Explosive Index.
2. Iceland and Philippines were created by volcanic activity.
3. Volcanic soils are rich, deep and fertile and allow intensive agriculture to take place.

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
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- (c) 1 and 3 only
- (d) 1, 2 and 3

ANSWER: A

Volcanic Soils, Also Known As Andisols, Are Formed From Volcanic Ash And Cinder Deposits. Andisols Are Usually Light And Fluffy And Are Easily Tilled. These Soils Also Hold A Lot Of Water. When Not Highly Weathered, Volcanic Soils Are Typically Very Fertile Soils.

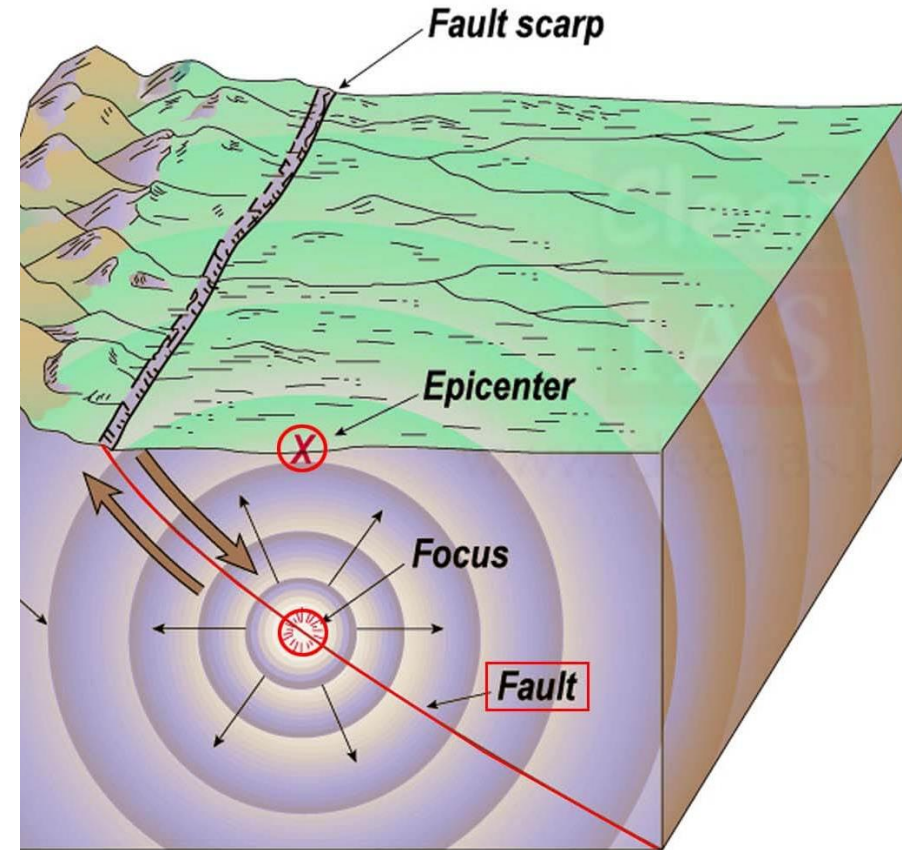
Q. The extent of damage caused by earthquake is *not* influenced by which one of the following ?

- (a) Strength of earthquake**
- (b) Population density**
- (c) Type of building**
- (d) Climate of the area**

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Answer: D



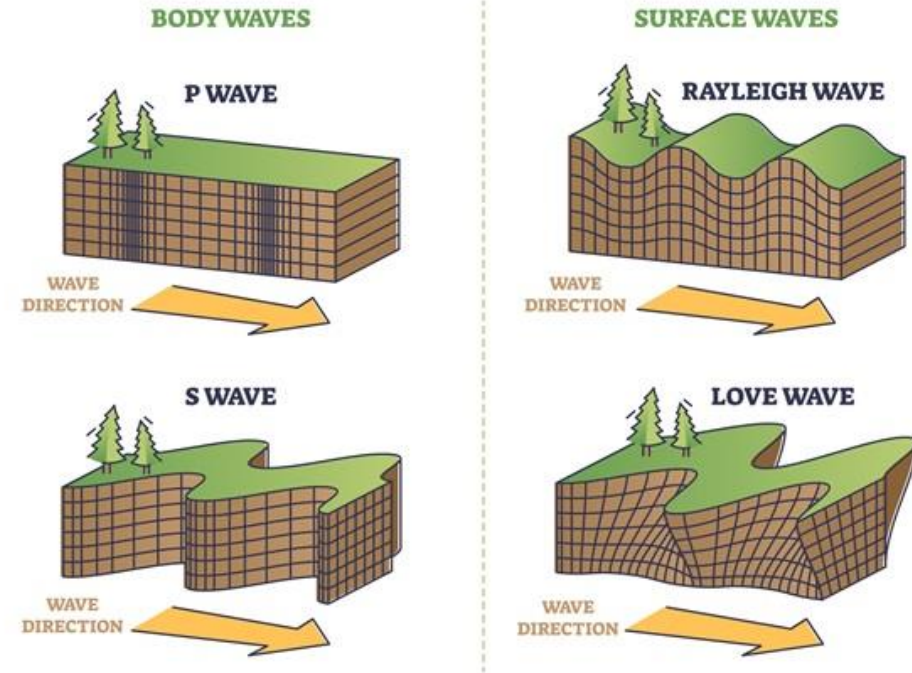
Q. Which one of the following statements about earthquake waves is **not** correct?

- (a) P waves move faster and are the first to arrive at the surface.
- (b) P waves can travel through gaseous, liquid and solid materials.
- (c) Seismographs located beyond 145° from epicentre can record the arrival of P waves.
- (d) P waves have maximum area covered under its shadow zone.

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TYPES OF SEISMIC WAVES



Answer: D

Q. Which one of the following is *not* a minor plate ?

- (a) Cocos Plate**
- (b) Nazca Plate**
- (c) Caroline Plate**
- (d) Antarctic Plate**

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- (d) Antarctic Plate

Answer: D

Q. Which of the following statements in the context of northern hemisphere is/are correct?

- (1) Vernal equinox occurs on March 21.
- (2) Summer solstice occurs on December 22.
- (3) Autumnal equinox occurs on September 23.
- (4) Winter solstice occurs on June 21.

Select the correct answer using the code given below:

- a) 2 and 4 only
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Q. Which One Of The Following Statements Is True About Tropopause?

- (A) It Is About 5 Km Thick Layer.
- (B) Its Average Height Is About 10 Km Over The Equator.
- (C) There Is No Seasonal Variation In Its Height.
- (D) The Temperature At Its Top Is Lowest Over The Equator And Relatively Higher Over The Poles.

Q. Which One Of The Following Statements Is True About Tropopause?

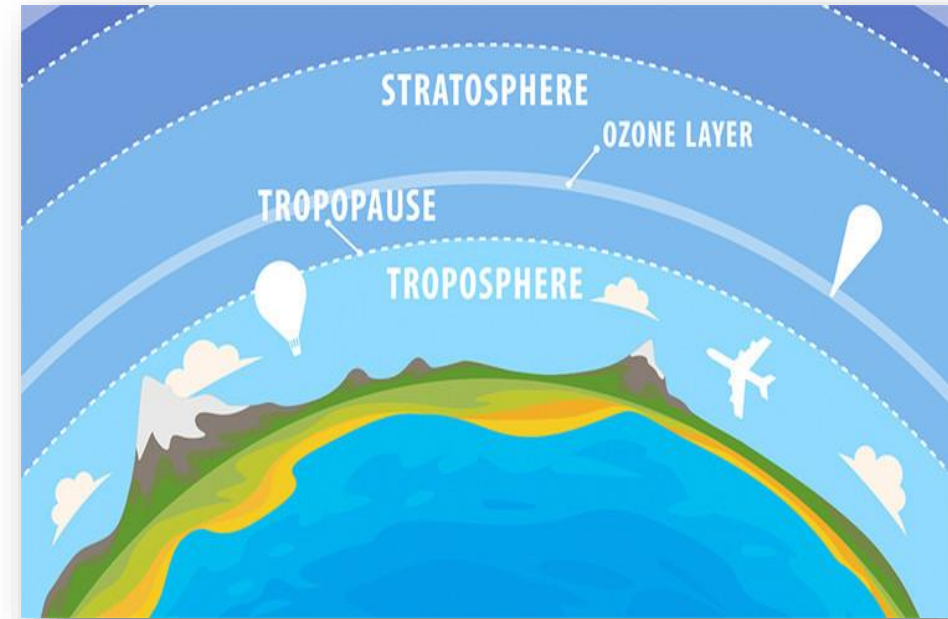
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- **Explanation:**
- It Is The **Boundary In The Earth's Atmosphere** Between The **Troposphere And The Stratosphere.**
- The **Tropopause Is Higher Than The Global Average In Warm Regions And Lower In Cold Regions.**



Q. In An Anticyclone

- (A) Barometric Pressure Is High Towards Centre Of The System.
- (B) Winds Blow In Clockwise Direction In Southern Hemisphere.
- (C) Weather Remains Moist And Sky Is Cloudy.
- (D) Situation Of Calm Prevails And Weather Changes Rapidly.

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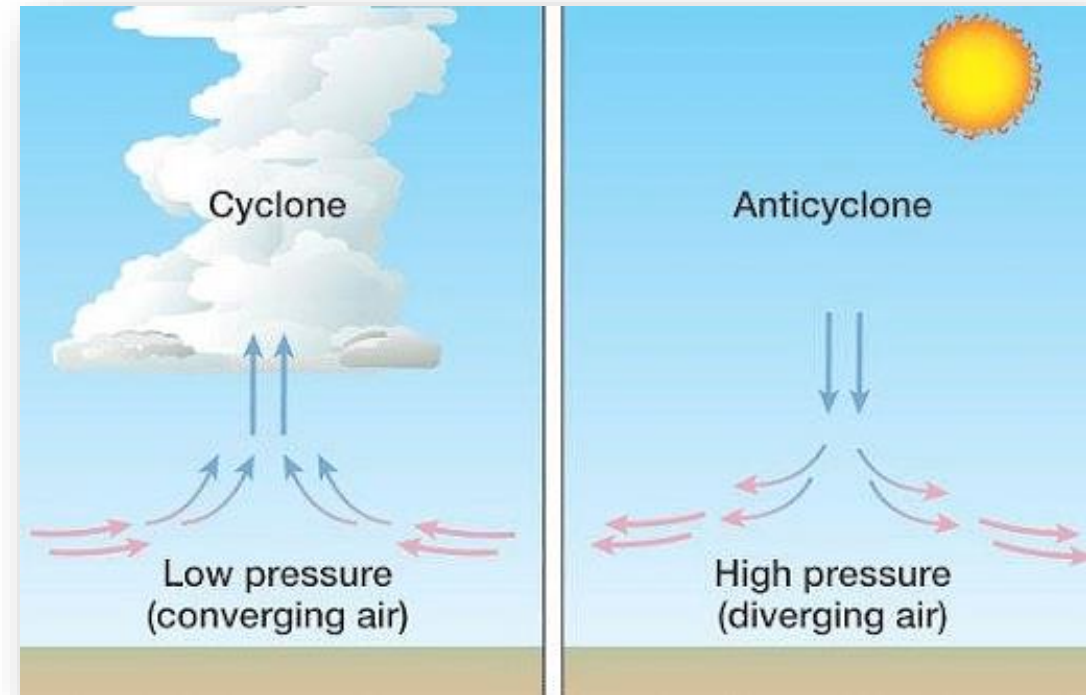
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- **Explanation:**
- **It Is A Region Of High Atmospheric Pressure Relative To The Surrounding Air (High Or High-pressure System).**



Q. Match The Following:

A. Temperature Falls With Height

1. Ionosphere

B. Reflects Radio Waves Back To Earth

2. Stratosphere

C. Contains Most Of The Ozone

3. Tropopause

D. Fall In Temperature Stops

4. Troposphere

A B C D

A B C D

A B C D

A B C D

(A) 4 2 1 3

(B) 3 2 4 1

(C) 4 1 2 3

(D) 4 3 1 2

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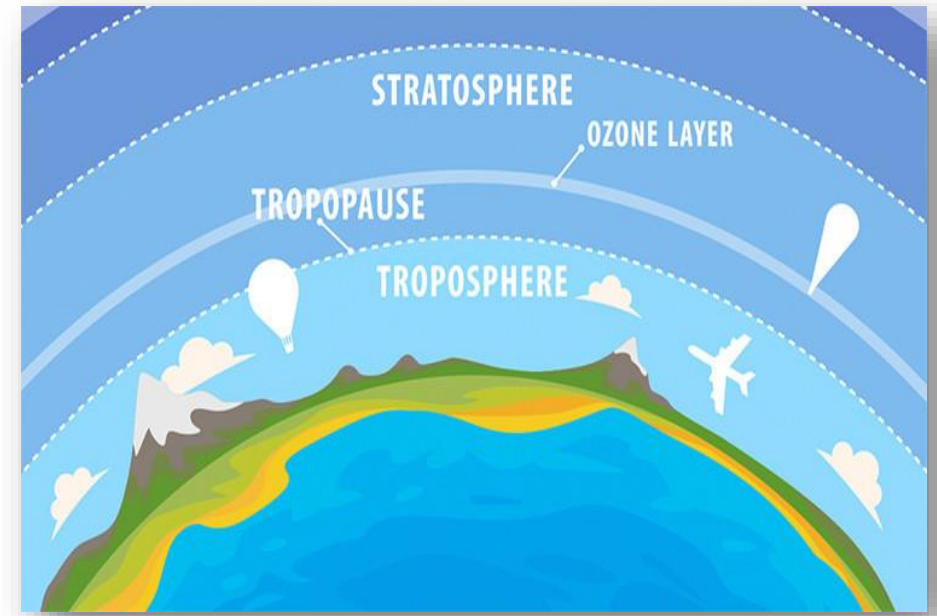
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(C) 4 1 2 3

(D) 4 3 1 2

- **Explanation :**
- **In Troposphere Temperature Falls With The Height. Ionosphere Reflects Radio Waves Back To The Earth.**
- **The Ozone Layer In Stratosphere Absorbs Most Of The Sun's UV Radiation.**
- **The Tropopause Is The Boundary Between Troposphere And The Stratosphere**



Q. Match the following

A. Santa Ana

1. Argentina

B. Chinook

2. Alps

C. Foehn

3. Rockies

D. Zonda

4. California

A B C D

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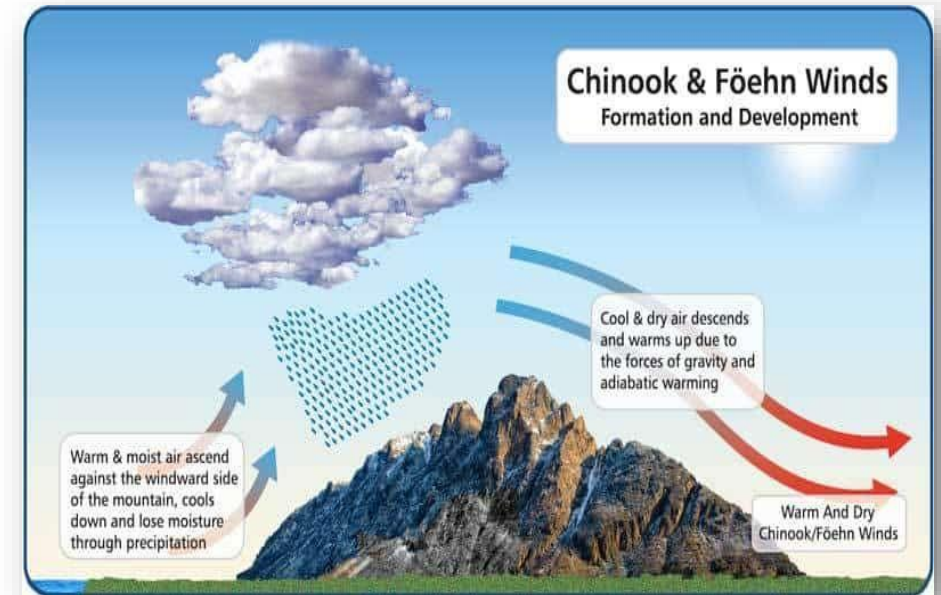
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(c) 4 2 3 1

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- **Explanation :**
- A **Foehn** Is A Type Of **Dry, Warm, Down-slope Wind** Drawing **Moist Mediterranean Air** Over The **Alps**.
- A **Chinook Wind** Creates **Warm, Dry Air** That Blows Down The **Eastern Slopes** Of The **Canadian Rockies**.



- **Explanation :**
- **The Santa Ana Winds, Extremely Dry Down-slope Winds That Affect California And Northern California.**
- **The Zonda Is A Dry Wind (Often Carrying Dust) Which Comes From Eastern Slope Of The Andes, In Argentina.**



Q. Which Of The Following Statements Characterize The Anticyclones?

1. Anticyclones Are Low Pressure Systems.
2. They Are Characterized By Divergent Wind Circulation.
3. They Are Indicative Of Dry Weather Conditions.

Select The Correct Answer Using The Code Given Below?

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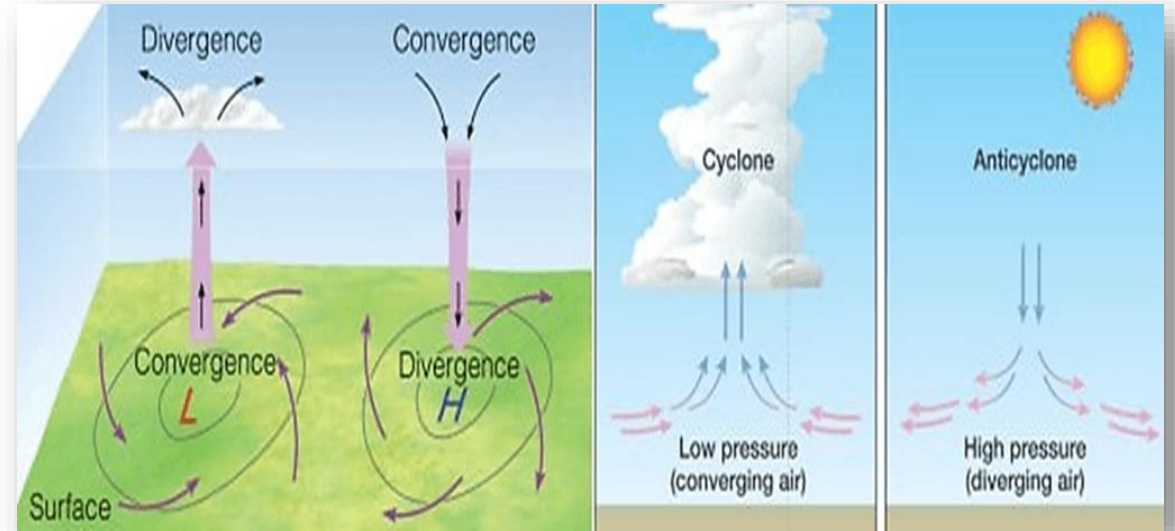
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- **Explanation:**
- It is Also Known As **A High Pressure Area**. It Is **A Large Atmospheric Circulation System With The Wind Flowing Clockwise** Around It In The **Northern Hemisphere**, And **Counter-clockwise** In The **Southern Hemisphere**.



Q. Which One Of The Following Gases Is Found In Highest Quantity In Exosphere?

(A) Hydrogen

(B) Helium

(C) Nitrogen

(D) Oxygen

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Q. Which of the following causes adiabatic temperature changes in atmosphere?

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- (b) Latent heat of condensation
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Answer: C

Q. The Clouds Of The Highest Altitude Are

(A) Altocumulus

(B) Altostratus

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Q. Which One Among The Following Sequences Of Water Bodies, From Lower To Higher Salinity Concentration, Is Correct?

- (A) Gulf Of California- Baltic Sea- Red Sea- Arctic Sea
- (B) Baltic Sea- Arctic Sea- Gulf Of California- Red Sea
- (C) Red Sea- Gulf Of California- Arctic Sea- Baltic Sea
- (D) Arctic Sea- Gulf Of California- Baltic Sea- Red Sea

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Q. Which One Among The Following Is A Cold Ocean Current?

(A) Canary Current

(B) Brazil Current

(C) Gulf Stream

(D) Kuroshio Current

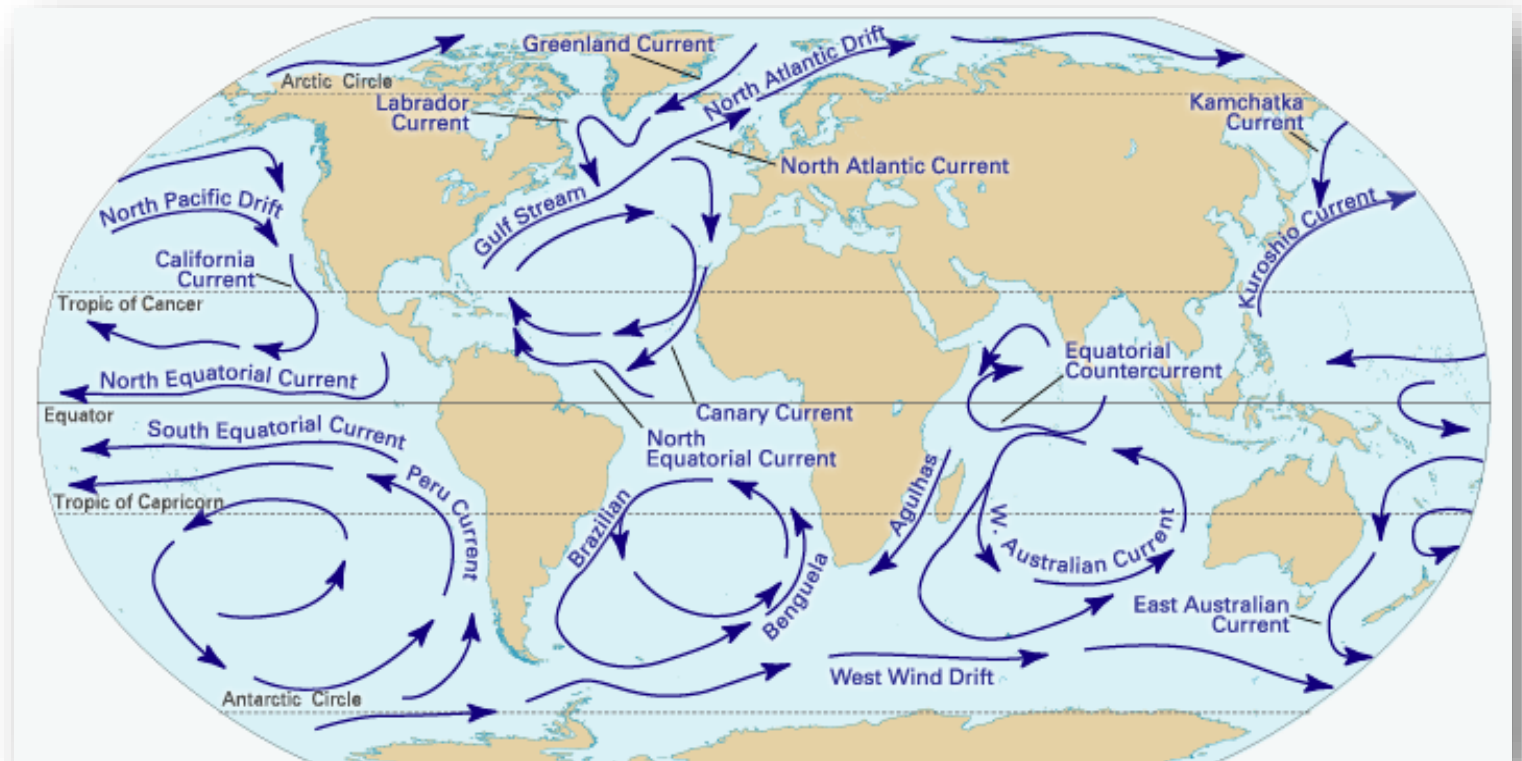
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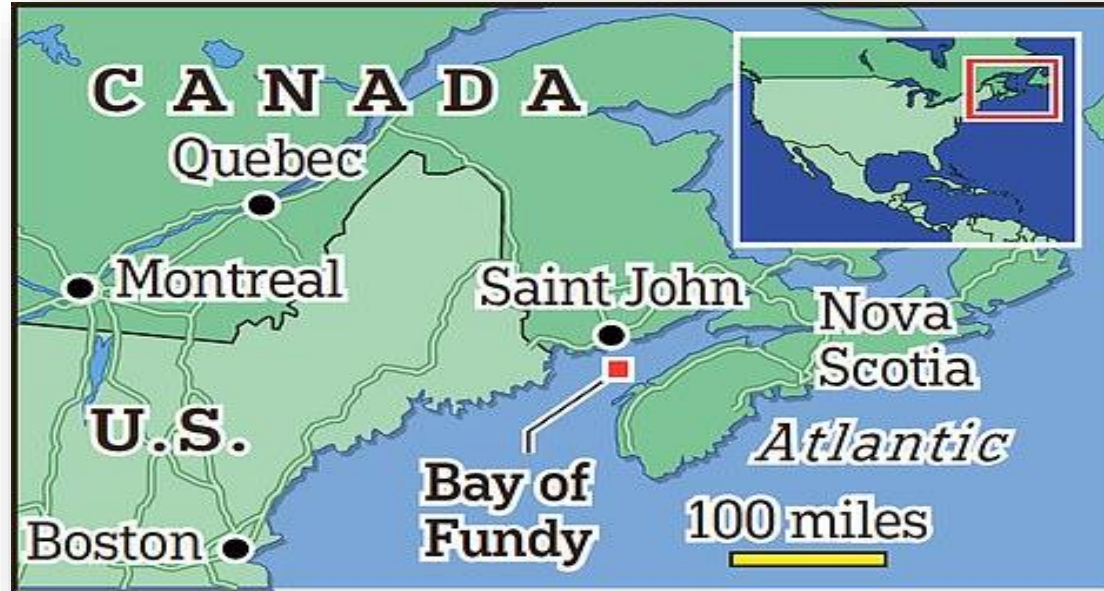
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Q. Which Of The Following Seas Has The Highest Average Salinity?

(A) Black Sea

(B) Yellow Sea

(C) Mediterranean Sea

(D) Dead Sea

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Q. Which One Of The Following Oceanic Currents Is Not Associated With The Pacific Ocean?

(A) Canaries

(B) Curoshio

(C) California

(D) Humboldt

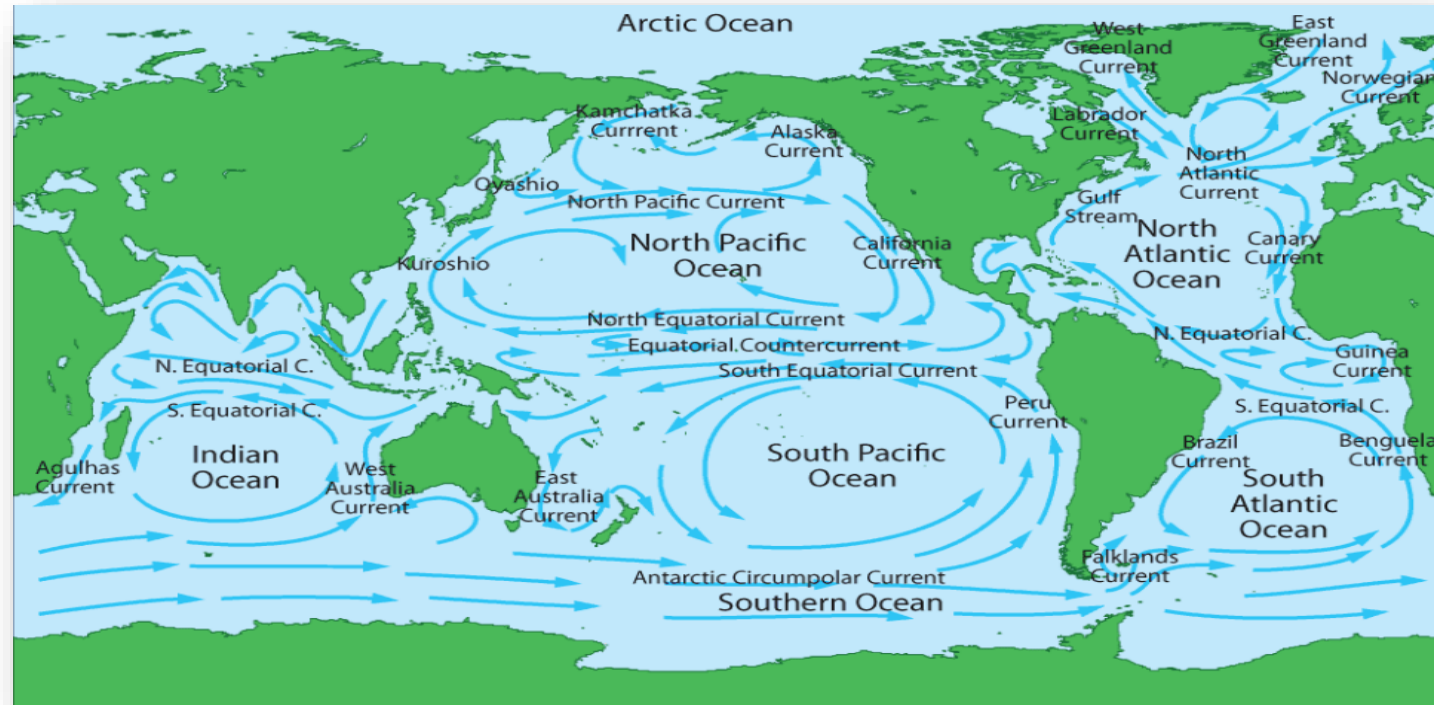
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(B) Kuroshio

(C) California

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Q.The Correct Sequence Of The Following Seas From West To East Is

- (A) Black Sea, Mediterranean Sea, Caspian Sea, Aral Sea
- (B) Caspian Sea, Mediterranean Sea, Black Sea, Aral Sea
- (C) Mediterranean Sea, Black Sea, Caspian Sea, Aral Sea
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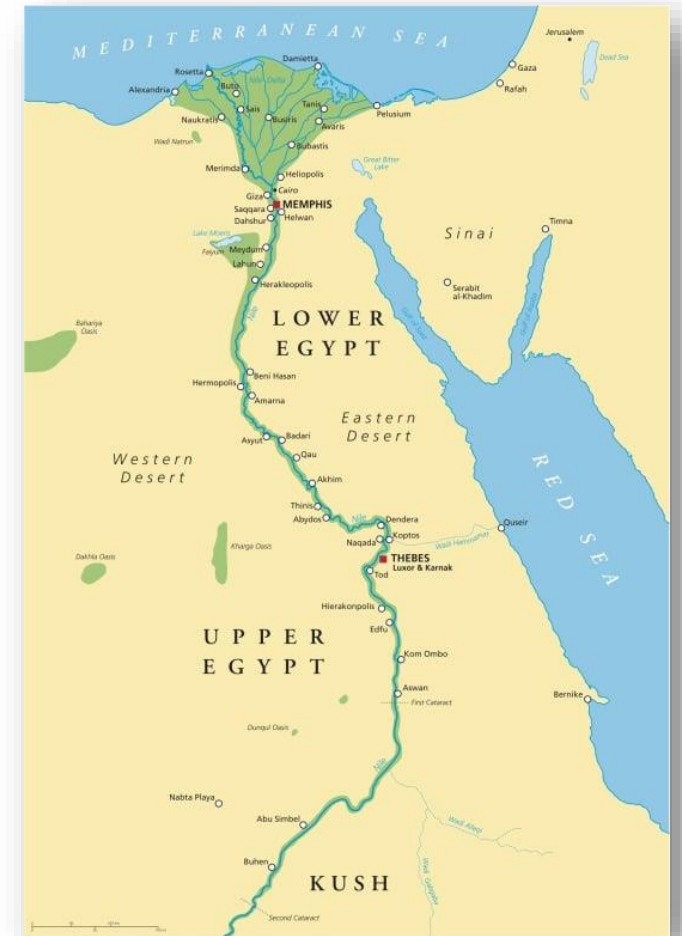
Q. What Is True About Nile?

1. Forms The Largest Delta Of The World
2. The Longest River Of The World
3. Provides Fertile Soils And Water For Irrigation In A Desert Region
4. The Most Voluminous River

(A) 1 And 2 (B) 1 And 3

(C) 2 And 3 (D) 3 And 4

- **Explanation:**
- **It Is A Major North-flowing River In North Eastern Africa.**
- **It Is Regarded As The Longest River In The World.**
- **The River Nile Is About 6,670 Km In Length.**
- **Although It Is Generally Associated With Egypt, Only 22% Of The Nile's Course Runs Through Egypt.**



Q. Which Among The Following Statements Characterized El Nino?

I. It Occurs At Irregular Intervals

ii. It Carriers Warmer Water

iii. It Carries Less Saline Water

iv. Its Atmospheric Equivalent Is Southern Oscillation.

Select The Correct, Answer Using The Code Given Below

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(B) II And III Only

(C) III And IV Only

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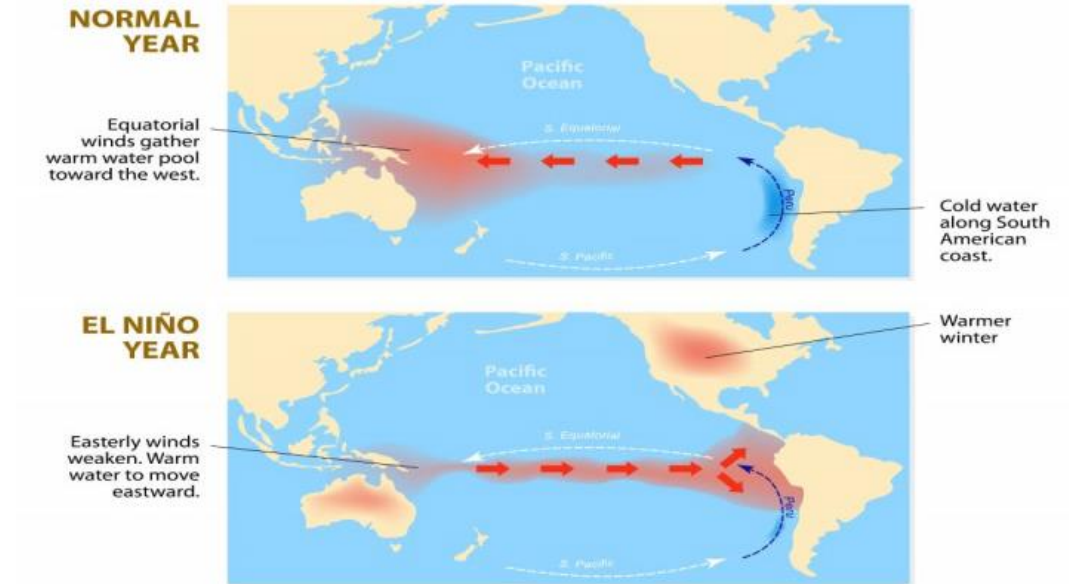
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- **Explanation:**
- **It Is A Climate Cycle In The Pacific Ocean With A Global Impact On Weather Patterns.**
- **During An El Niño, The Pacific's Warmest Surface Waters Sit Offshore Of North Western South America.**



Q. Which Of The Following Two Gulfs Are Connected By Hormuz Strait?

- (A) Persian Gulf— Gulf Of Oman
- (B) Persian Gulf— Gulf Of Aden
- (C) Gulf Of Aden— Gulf Of Oman
- (D) Persian Gulf— Gulf Of Aquaba

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