

Study Circle Career Development Institute

100 Important Points : SSP



**(16) Geography : Solar System & Earth , Latitudes,
Longitudes, Time**

(2) Maharashtra, India and World Geography (15)

- 1) Physical Geography of World (3)
- 2) Social Geography of World (1)
- 3) Economical Geography of World (1)
- 4) Physical Geography of India (2)
- 5) Social Geography of India (1)
- 6) Economical Geography of India (2)
- 7) Physical Geography of Maharashtra (2)
- 8) Social Geography of Maharashtra (1)
- 9) Economical Geography of Maharashtra (1)

16) Solar System & Earth, Latitudes, Longitudes, Time

- 17) Earthquakes & Volcanoes, Geographical Features, Rivers & projects
- 18) Atmosphere and Climate, Winds & Ocean Currents
- 19) World Population, Languages, Races, Geopolitics, World Locations & Boundaries
- 20) World Minerals and Energy Resources, Industry, Transport & Tourism, Forestry & Environment, Agriculture
- 21) Evolution and Geomorphology of the Indian Subcontinent
- 22) Major physiographic regions -Himalayas, Mountains, Planes, Plateau, Desert area Coastal areas, Islands, Rivers & projects, Rainfall, Climate
- 23) Population, Languages, Tribes and Races, Geopolitics
- 24) India : Agriculture, Vegetation, Minerals and Energy Resources
- 25) India : Industry, Transport & Tourism, Cities, Trade
- 26) Sahyadri and its ranges, rivers & dams
- 27) Rocks, Soil, crpos, vegetation
- 28) Population, migration, habitations & tribes
- 29) Maharashtra : Agriculture, Vegetation, Minerals and Energy Resources
- 30) Maharashtra : Industry, Transport & Tourism, Cities, Trade

State Service Preliminary Examination 2024

Preparation & Guidance : Topics & Subtopics of the Syllabus

100 Important Points : Geography 16

- 1) The terms 'Event Horizon', 'Singularity', 'String Theory' and 'Standard Model' are sometimes seen in the news in the context of
- 1) Observation and understanding of the Universe
 - 2) Study of the solar and the lunar eclipses
 - 3) Placing satellites in the orbit of the Earth
 - 4) Origin and evolution of living organisms on the Earth

- 2) What is the difference between asteroids and comets ?
- a) Asteroids are small rocky planetoids, while comets are formed of v-- frozen gases held together by rocky and metallic material.
 - b) Asteroids are-found mostly between the orbits of Jupiter and Mars, while comets are found mostly between Venus and Mercury.
 - c) Comets show a perceptible glowing tail, while asteroids do not.

Which of the statements given above is/are correct ?

- 1) (a) and (b) only
 - 2) (a) and (c) only
 - 3) (c) only
 - 4) (a), (b) and (c)
- 3) Match the pairs of Column A and Column B :

<i>Column A (Origin of Solar System)</i>	<i>Column B (Inventor)</i>
a) Nebular Hypothesis	i) James Jeans
b) Meteorite Hypothesis	ii) Moulton
c) Planetesimal Hypothesis	iii) Lockyer
d) Tidal Hypothesis	iv) Laplace

Answer Options :

	(a)	(b)	(c)	(d)
1)	II	I	III	IV
2)	III	II	IV	I
3)	IV	III	II	I
4)	I	II	IV	III

- 4) Match the following :

Philosopher	Hypothesis about origin of the Earth
a) Immanuel Kant	I. Tidal
b) Laplace	II. Gaseous
c) Chamberlin	III. Nebular
d) James Jeans	IV. Planetesimal

Answer Options :

- | | (a) | (b) | (c) | (d) |
|----|-----|-----|-----|-----|
| 1) | I | II | III | IV |
| 2) | III | I | IV | II |
| 3) | IV | I | III | II |
| 4) | II | III | IV | I |

- 5) Match List I with List II and select the correct answer from the options given :

List-I

List-II

- | | |
|------------------------|---------------------------|
| a) Erdkunde | I) Alexander von Humboldt |
| b) Anthropo-Geographic | II) Jean Brunhes |
| c) Geogrda Humana | III) Carl Ritter |
| d) Cosmos | IV) Friedrich Ratzel |

Answer Options :

- | | (a) | (b) | (c) | (d) |
|----|-----|-----|-----|-----|
| 1) | II | III | II | IV |
| 2) | IV | II | III | I |
| 3) | III | IV | II | I |
| 4) | I | III | IV | II |

- 6) Consider the following statements about Mars :

- | | |
|--|---------------------------------|
| a) Thin atmosphere | b) Dry river bed |
| c) Temperature ranges from -30°C to -100°C | d) Phobos is the only satellite |
- Which of the above statements are correct?

- 1) (a) and (d) 2) (b) and (d) 3) (c) and (d) 4) (a) and (b)

- 7) Which of the following is **not** considered as a planet of the solar system but called as a dwarf planet since the year 2006?

- 1) Mercury 2) Uranus 3) Neptune 4) Pluto

- 8) Give the correct chronological sequence of the mission undertaken to Mars by the six countries or agencies given below :

- | | | | |
|--------------------------|-----------|----------|----------|
| a) America | b) Russia | c) China | d) Japan |
| e) European Space Agency | f) Bharat | | |

Answer Options :

- 1) America, Russia, China, Japan, Bharat, European Space Agency.
- 2) Russia, America, Japan, European Space Agency, China, Bharat.
- 3) Russia, Japan, America, China, European Space Agency, Bharat.
- 4) America, Russia, Japan, China, European Space Agency, Bharat.

- 9) The terms 'Event Horizon', 'Singularity', 'String Theory' and 'Standard Model' are sometimes seen in the news in the context of

- 1) Observation and understanding of the Universe
- 2) Study of the solar and the lunar eclipses
- 3) Placing satellites in the orbit of the Earth
- 4) Origin and evolution of living organisms on the Earth

- 10) A person stood alone in a desert on a dark night and wanted to reach his village which was situated 5 km east of the point where he was standing. He had no instruments to find the direction but he located the polestar. The most convenient way now to reach his village is to walk in the
- 1) direction facing the polestar
 - 2) direction opposite to the polestar
 - 3) direction keeping the polestar to his left
 - 4) direction keeping the polestar to his right
- 11) What is the difference between asteroids and comets ?
- a) Asteroids are small rocky planetoids, while comets are formed of v-- frozen gases held together by rocky and metallic material.
 - b) Asteroids are-found mostly between the orbits of Jupiter and Mars, while comets are found mostly between Venus and Mercury.
 - c) Comets show a perceptible glowing tail, while asteroids do not.
- Which of the statements given above is/are correct ?
- 1) (a) and (b) only
 - 2) (a) and (c) only
 - 3) (c) only
 - 4) (a), (b) and (c)
- 12) What causes wind to deflect toward left in the Southern hemisphere?
- 1) Temperature
 - 2) Magnetic field
 - 3) Rotation of the earth
 - 4) Pressure
- 13) Variations in the length of daytime and nighttime from season to season are due to
- 1) the earth's rotation on its axis
 - 2) the earth's revolution round the sun, in an elliptical manner
 - 3) latitudinal position of the place
 - 4) revolution of the earth on a tilted axis
- 14) Consider the following factors :
- a) Rotation of the Earth
 - b) Air pressure and wind
 - c) Density of ocean water
 - d) Revolution of the Earth
- Which of the above factors influence the ocean currents?
- 1) (a) and (b) only
 - 2) (a), (b) and (c)
 - 3) (a) and (d)
 - 4) (b), (c) and (d)
- 15) **Assertion (A)** : Wind pattern are clockwise in the northern hemisphere and anticlockwise in the southern hemisphere
Reasons (R) : The directions of wind pattern in the northern and the southern hemisphere are governed by the Coriolis effect.
Answer Options :
- 1) Both A and R are individually *true* and R is the *correct* explanation of A.
 - 2) Both A and R are individually *true* but R is NOT a *correct* explanation of A.
 - 3) A is *true* but R is *false*.
 - 4) A is *false* but R is *true*.

- 16) Westerlies in southern hemisphere are stronger and persistent than in northern hemisphere. Why?
a) Southern hemisphere has less landmass as compared to northern hemisphere.
b) Coriolis force is higher in southern hemisphere as compared to northern hemisphere
Which of the statements given above is/are correct ?
1) (a) only b) (b) only c) Both (a) and (b) d) Neither (a) nor (b)

- 17) Examine the following statements and identify the correct statements :
Statement 'A' : Within 24 hours the Earth rotates in 360° longitudes.
Statement 'B' : The Earth requires four minutes to cross the one degree longitude.

Answer Options :

- 1) Statements 'A' and 'B' are correct
2) Statements 'A' and 'B' are incorrect
3) Statement 'A' is correct but statement 'B' is incorrect
4) Statement 'A' is incorrect but statement 'B' is correct

- 18) Which one of the following statements is correct?
1) The Earth rotates from East to West. 2) The Earth rotates from West to East.
3) The Earth rotates from South to North. 4) The Earth rotates from North to South

- 19) Examine the following statements and identify the correct statements :
Statement 'A' : Within 24 hours the Earth rotates in 360° longitudes.
Statement 'B' : The Earth requires four minutes to cross the one degree longitude.

Answer Options :

- 1) Statements 'A' and 'B' are correct
2) Statements 'A' and 'B' are incorrect
3) Statement 'A' is correct but statement 'B' is incorrect
4) Statement 'A' is incorrect but statement 'B' is correct

- 20) Match the following:

<i>Feature/Climate</i>	<i>Date</i>
a) Vernal Equinox	I. December 22
b) Summer Solstice	II. September 23
c) Winter Solstice	III. March 21
d) Autumnal Equinox	IV. June 21

Answer Options :

- | | (a) | (b) | (c) | (d) |
|----|-----|-----|-----|-----|
| 1) | III | IV | I | II |
| 2) | III | I | II | IV |
| 3) | III | I | IV | II |
| 4) | II | IV | I | III |

- 21) On 21st June, the Sun ...
1) does not set below the horizon at the Arctic Circle
2) does not set below the horizon at Antarctic Circle
3) shines vertically overhead at noon on the Equator
4) shines vertically overhead at the Tropic of Capricorn

- 22) "Each day is more or less the same, the morning is clear and bright with a sea breeze; as the Sun climbs high in the sky, heat mounts up, dark clouds form, then rain comes with thunder and lightning. But rain is soon over." Which of the following regions is described in the above passage?
1) Savannah 2) Equatorial 3) Monsoon 4) Mediterranean
- 23) In the South Atlantic and South-Eastern Pacific regions in tropical latitudes, cyclone does not originate. What is the reason?
1) Sea surface temperatures are low
2) Inter-Tropical Convergence Zone seldom occurs
3) Coriolis force is too weak
4) Absence of land in those regions
- 24) Variations in the length of daytime and nighttime from season to season are due to
1) the earth's rotation on its axis
2) the earth's revolution round the sun, in an elliptical manner
3) latitudinal position of the place
4) revolution of the earth on a tilted axis
- 25) Consider the following countries :
a) Australia b) Namibia c) Brazil d) Chile
Through which of the above does the Tropic of Capricorn pass?
1) (a) only 2) (b), (c) and (d) 3) (a), (b) and (c) 4) (a), (b), (c) and (d)
- 26) Which one of the following straits is nearest to the International Date Line ?
1) Malacca Strait **2) Bering Strait** 3) Strait of Florida 4) Strait of Gibraltar
- 27) Which one of the following cities is nearest to the equator ?
1) Colombo 2) Jakarta 3) Manila 4) Singapore
- 28) Consider the following statements :
a) Either of the two belts over the oceans at about 30° to 35° N and S Latitudes is known as Horse Latitude.
b) Horse latitudes are low pressure belts.
Which of the statement given above is/are correct ?
1) (a) only 2) (b) only 3) Both (a) and (b) 4) Neither (a) nor (b)
- 29) Which one of the following cities does *not* have the same clock time as that of the other three cities at any given instant ?
1) London (U.K.) 2) Lisbon (Portugal)
3) Accra (Ghana) 4) Addis Ababa (Ethiopia)
- 30) Through which one of the following groups of countries does the Equator pass ?
1) Brazil, Zambia and Malaysia 2) Colombia, Kenya and Indonesia
3) Brazil, Sudan and Malaysia 4) Venezuela, Ethiopia and Indonesia

31) The latitude of a place expresses its angular position relative to the plane of :
1) Axis of the Earth 2) Equator 3) North pole 4) South pole

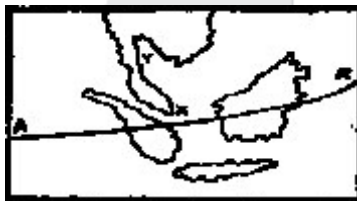
32) Roaring Forties is
1) Tides in the Pacific Ocean at 40° Longitude
2) Westerlies blowing at 40° and 60° South latitude
3) Seasonal winds over Australia
4) None of these

33) Consider the following statements about the 'Roaring Forties'.
a) They blow uninterrupted in the Northern and Southern Hemispheres.
b) They blow with great strength and constancy.
c) Their direction is generally from North-West to East in the Southern Hemisphere.
d) Overcast skies, rain and raw weather are generally associated with them.

Which of these statements are correct ?

1) (a),(b) and (c) 2) (b),(c) and (d) 3) (a), (c) and (d) 4) (a), (b) and (d)

34) The latitude marked AA in the map represents :



1) Tropic of cancer 2) Equator 3) Tropic of Capricorn 4) None of these

35) Deserts such as the Sahara are generally found between 20° and 30° latitudes in the western parts of the continents. This is because these regions :

1) have offshore winds throughout the year
2) have warm offshore currents
3) lie in the belt of the doldrums
4) are very hot-throughout the year

36) Match the following :

A) Doldrums 1) 5°N to 5°S
B) Horse Latitudes 2) 30°N to 30°S
C) Torrid Zones 3) 40° and 50°S
D) Roaring forties 4) 23½° N and 23½°S

Answer Options :

	A	B	C	D
1)	1	2	4	3
2)	1	2	3	4
3)	4	3	2	1
4)	2	1	3	4

- 37) As we move from pole to equator along the longitude, what is true of the variety of crops and animals?
- 1) Both increase
 - 2) Both decrease
 - 3) Variety of crops increases but that of animals decreases
 - 4) Variety of animals increases but that of crops decreases
- 38) About 50% of the world population is concentrated between the latitudes of.....
- 1) 5°N and 20°N
 - 2) 20°N and 40°N
 - 3) 40°N and 60°N
 - 4) 20°S and 40°S
- 39) **Assertion (A)** : 60° - 65° latitudes in both the hemispheres have a low pressure belt instead of high pressure.
Reason (R) : The low pressure areas are permanent over oceans rather than on land.
Answer Options :
- 1) Both A and R are individually true and R is the correct explanation of A
 - 2) Both A and R are individually true but R is *not* a correct explanation of A
 - 3) A is true but R is false
 - 4) A is false but R is true
- 40) There are nearly :
- 1) 360 Meridians
 - 2) 180 Meridians
 - 3) 200 Meridians
 - 4) 100 Meridians
- 41) What will be the nature of the time in two cities situated on the same longitude but one in north and the other in the south hemisphere?
- 1) Unchanged
 - 2) Four hours difference
 - 3) 4 minutes difference
 - 4) There are few such cities
- 42) On 21st June, the Sun ...
- 1) does not set below the horizon at the Arctic Circle
 - 2) does not set below the horizon at Antarctic Circle
 - 3) shines vertically overhead at noon on the Equator
 - 4) shines vertically overhead at the Tropic of Capricorn
- 43) Through which one of the following groups of countries does the Equator pass ?
- 1) Brazil, Zambia and Malaysia
 - 2) Colombia, Kenya and Indonesia
 - 3) Brazil, Sudan and Malaysia
 - 4) Venezuela, Ethiopia and Indonesia
- 44) Consider the following statements :
- a) Longitude of Jabalpur's location is between those of Indore and Bhopal.
 - b) Latitude of Aurangabad's location is between those of Vadodara and Pune.
 - c) Bangalore is situate more southward than Chennai.
- Which of these statements is/are correct?
- 1) (a) and (c)
 - 2) Only (b)
 - 3) (b) and (c)
 - 4) (a), (b) and (c)

- 45) Which one of the following cities is nearest to the equator ?
1) Colombo 2) Jakarta 3) Manila 4) Singapore
- 46) Consider the following countries :
a) Australia b) Namibia c) Brazil d) Chile
Through which of the above does the Tropic of Capricorn pass?
1) (a) only 2) (b), (c) and (d)
3) (a), (b) and (c) 4) (a), (b), (c) and (d)
- 47) A person stood alone in a desert on a dark night and wanted to reach his village which was situated 5 km east of the point where he was standing. He had no instruments to find the direction but he located the polestar. The most convenient way now to reach his village is to walk in the.....
1) direction facing the polestar
2) direction opposite to the polestar
3) direction keeping the polestar to his left
4) direction keeping the polestar to his right
- 48) Which of the following places have their standard times that are the same as GMT?
a) Accra b) Dublin c) Madrid d) Lisbon
Answer Options :
1) (a), (b) and (c) 2) (a), (c) and (d) 3) (a), (b) and (d) 4) (b), (c) and (d)
- 49) International date line
1) Roughly corresponds to 180th meridian, the region to the east of which are counted as being one day earlier in their calendar dates than regions to the west
2) Roughly corresponds to 180th meridian, the region to the west of which are counted as being one day earlier in their calendar dates than regions to the east
3) Roughly corresponds to 90th meridian which falls on the opposite side of the Greenwich meridian
4) Roughly corresponds to 135th meridian which falls on the opposite side of the Greenwich meridian
- 50) Which one of the following cities does *not* have the same clock time as that of the other three cities at any given instant ?
1) London (U.K.) 2) Lisbon (Portugal)
3) Accra (Ghana) 4) Addis Ababa (Ethiopia)