

**Study Circle Career Development Institute**

# **100 Important Points : SSP**



**(18) Geography : Atmosphere and Climate,  
Winds & Ocean Currents**

**(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 : 18

1) Observe the following statements :

- a) The average density of the earth is 5.12 gram/cubic centimeter.
- b) The density of the earth's crust is 2.8 gram/cubic centimeter.

**Answer options :**

- 1) Only statement (a) is correct
- 2) Only statement (b) is correct
- 3) Statements (a) and (b) are correct
- 4) Statements (a) and (b) are incorrect

2) Consider the following statements :

- a) The Earth's magnetic field has reversed every few hundred thousand years.
- b) When the Earth was created more than 4000 million years ago, there was 54% oxygen and no carbon dioxide.
- c) When living organisms originated, they modified the early atmosphere of the Earth.

**Answer Options :**

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

3) Match the following :

**Column - I (Volcano)**

- a) Mt. Popa
- b) Kilimanjaro
- c) Krakatoa
- d) Fujiyama

**Column - II (Region)**

- i) Africa
- ii) Japan
- iii) Myanmar
- iv) Indonesia

**Answer Options :**

- |    | (a)   | (b)   | (c)   | (d)  |
|----|-------|-------|-------|------|
| 1) | (i)   | (iv)  | (iii) | (ii) |
| 2) | (i)   | (iii) | (iv)  | (ii) |
| 3) | (iii) | (i)   | (iv)  | (ii) |
| 4) | (iii) | (i)   | (ii)  | (iv) |

4) Consider the following statements :

- a) The Richter scale is a logarithmic scale and so an increase of 1 magnitude unit represents a factor of 10 times in amplitude.
- b) Each integer reading of the Richter scale has an energy 100 times that of the previous integer reading.

*Which of the statements given above is /are correct ?*

- 1) (a) only
- 2) (b) only
- 3) Both (a) and (b)
- 4) Neither (a) nor (b)

- 5) Match List I with List II and select the correct answer using the codes given below the lists :

**List I (Volcanic Mountain)      List II (Country)**

- |                |                |
|----------------|----------------|
| A) Mt. Rainier | 1) Italy       |
| B) Etna        | 2) Mexico      |
| C) Paricutin   | 3) Philippines |
| D) Taal        | 4) U.S.A.      |

**Answer Option :**

- |    | (A) | (B) | (C) | (D) |
|----|-----|-----|-----|-----|
| 1) | 4   | 2   | 1   | 3   |
| 2) | 4   | 1   | 2   | 3   |
| 3) | 2   | 1   | 4   | 3   |
| 4) | 4   | 3   | 2   | 1   |

- 6) Which of the following statements are correct about the earthquake disasters, choose the correct option from the answer options :

- |   |   |
|---|---|
| a) 17 <sup>th</sup> January, 1995 - Kobe, Japan       | b) 30 <sup>th</sup> May, 1998 - Afghanistan           |
| c) 29 <sup>th</sup> March 1999 - Uttar Pradesh, India | d) 26 <sup>th</sup> January 2001 - Maharashtra, India |

**Answer options :**

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

- 7) Observe the following statements :

- a) Arenaceous rocks are the types of sedimentary rocks.  
b) The percentage of sand is high in Arenaceous rocks.

**Answer options :**

- 1) Only statement (a) is correct      2) Only statement (b) is correct  
3) Statements (a) and (b) are correct      4) Statements (a) and (b) are incorrect

- 8) **Assertion (A) :** Marble is a very hard rock

**Reason (R) :** Marble is an igneous rock.

**Answer Options :**

- 1) If A is true and R is the correct explanation.  
2) If A is true and R is also true, but R is not the correct explanation for A  
3) If A is true and R is false      4) If A and R both are false

- 9) Match the pairs of column A and column B :

**Column A (Types of Rock)**

- a) Extrusive Igneous Rock  
b) Intrusive Igneous Rock  
c) Sedimentary Rock  
d) Metamorphic Rock

**Column B (Rock)**

- I) Dyke  
II) Arenaceous Rock  
III) Graphite  
IV) Conglomerate

**Answer Options :**

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

- 10) **Assertion (A)** : During Neap Tides, the high tide is lower and the low tide is higher than usual.  
**Reason (R)** : The Neap Tide, unlike the Spring Tide, occurs on the New Moon instead of on the Full Moon.
- 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*.

- 11) La Nina is suspected to have caused recent floods in Australia. How is La Nina different from El Nino ?
- a) La Nina is characterised by unusually cold ocean temperature in equatorial Indian Ocean whereas El Nino is characterised by unusually warm ocean temperature in the equatorial Pacific Ocean.
  - b) El Nino has adverse effect on south-west monsoon of India, but La Nina has no effect on monsoon climate.

Which of the statements given above is/are correct ?

- 1) (a) only                      2) (b) only                      3) Both (a) and (b)                      4) Neither (a) nor (b)
- 12) Match List I with List II and select the correct answer using the codes given below the Lists :

<b>List I (Oceanic Trench)</b>	<b>List II (Location)</b>
A) Aleutian	1) Indian Ocean
B) Kermadec	2) North Pacific Ocean
C) Sunda	3) South Pacific Ocean
D) S. Sandwich	4) South Atlantic Ocean

**Answer Options :**

	<b>(A)</b>	<b>(B)</b>	<b>(C)</b>	<b>(D)</b>
1)	2	4	1	3
2)	2	3	1	4
3)	1	3	2	4
4)	1	4	2	3

- 13) The acidification of oceans is increasing. Why is this phenomenon a cause of concern?
- a) The growth and survival of calcareous phytoplankton will be adversely affected.
  - b) The growth and survival of coral reefs will be adversely affected.
  - c) The survival of some animals that have phytoplanktonic larvae will be adversely affected.
  - d) The cloud seeding and formation of clouds will be adversely affected.

Which of the statements given above is/are correct?

- 1) (a), (b) and (c) only                      2) (b) only  
3) (a) and (c) only                      4) (a), (b), (c) and (d)
- 14) Read the following statements and choose the correct option given below :
- a) El-Nino is merely an extension of the warm equatorial current.
  - b) El-Nino means "Child Christ"
  - c) El-Nino is a current that appears around Christmas in December.
  - d) El-Nino is used in India for forecasting long range monsoon rainfall.

**Answer Options :**

- 1) Statement c is not correct                      2) Statements b and c are not correct
- 3) Statement d is not correct                      4) All statements are correct

- 15) Consider the following statements and select the correct option from the following :
- a) Most of the fishing grounds occur in areas where the continental shelf is wide.
  - b) Fishing activity is well developed in warm tropical waters.
  - c) Mixing of warm and cold currents brings plant nutrients for fish.
  - d) Inland fisheries are more significant than other types in India.

**Answer Options :**

- 1) Statements (a) and (b) are correct      2) Statements (a) and (c) are correct
- 3) Statements (b), (c) and (d) are correct      4) Statements (a) (b) and (c) are correct

- 16) Which of the following are the Important evidences of the continental drift ?

- a) Geographical Evidences      b) Climatic Evidences
- c) Fossil Evidences      d) Thermal Force

**Answer options :**

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

- 17) a) Endogenetic forces evolve from the earth's interior and are responsible for the evolution of the relief through events like volcanic eruptions, earthquakes etc.  
b) Exogenetic forces evolve as a result of external sources (e.g. sun) and are responsible for destruction of relief through agents like rivers, winds etc.

**Answer options :**

- 1) (a) and (b) True      2) (a) True (b) False      3) (a) False (b) True      4) (a) and (b) False

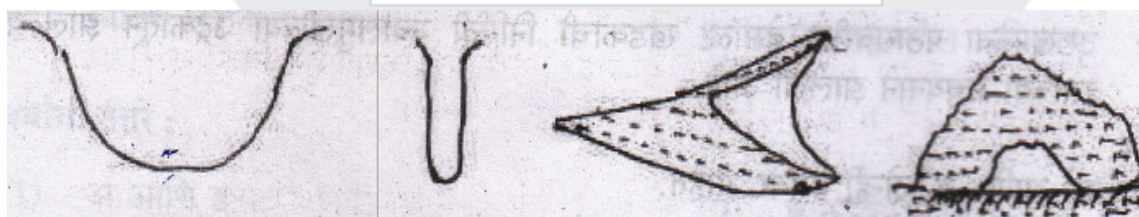
- 18) What are the topography created due to stream erosion ?

- a) Pot holes      b) Rapids      c) Waterfall      d) Hills

**Answer options :**

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

- 19) The following figures are the 'Relief Features' created by external forces. Select the proper option from these relief features created by external forces.



*U-Shaped Valley*

*Gorge*

*Barkhan*

*Arch*

**U-Shaped Valley**

- 1) Wind
- 2) Glacier
- 3) River
- 4) Sea waves

**Gorge**

- 1) Glacier
- 2) River
- 3) Wind
- 4) Glacier

**Barkhan**

- 1) Sea waves
- 2) Wind
- 3) Glacier
- 4) River

**Arch**

- 1) River
- 2) Sea waves
- 3) Sea waves
- 4) Wind

- 20) Which of the following statement / statements is /are **correct** ?  
a) When the speed of the wind reduced, sand gets deposited, this feature is known as sand dunes.  
b) It is necessary that wind blows in one direction for the formation of sand dunes.

**Answer options :**

- 1) (a) only  
2) (b) only  
3) Both (a) and (b)  
4) Neither (a) nor (b)

- 21) Match List I with List II and select the correct answer using the code given below the lists:

**List I (Geographic feature)**

**List II (Country)**

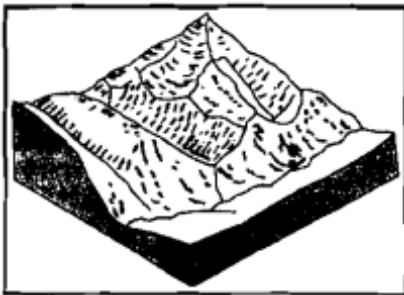
- A) Great Victoria Desert  
B) Grand Canyon  
C) Lake Winnipeg  
D) Southern Alps

- 1) Australia  
2) Canada  
3) New Zealand  
4) USA

**Answer Options :**

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

- 22) Name the agent of erosion forming the landform shown in the following figure.



- 1) Wind    2) River    3) Glacier    4) Underground water

- 23) Consider the following statements :

- a) Shore - zone of land between highest high tide water and the lowest low tide water.  
b) Off shore - Represents the zone of shallow bottom of the continental slope.  
c) Fore shore - Extends from lowest low tide water to mean high tide water.  
d) Back shore - zone starting from mean high tide water to sea cliff base.

**Answer options :**

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

- 24) Arrange the following islands of Japan from North to South and select **correct** answer using the code given below :

- a) Hokkaido    b) Honshu    c) Shikoku    d) Kyushu

**Answer options :**

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

- 25) Consider the following statements ;  
a) Length of a terrestrial mile is lesser than that of a nautical mile.  
b) Harmattan is a dusty land-wind of the East African Coast.  
c) Greece and Albania form a part of the Iberian Peninsula.  
Which of the statements given above is/are correct ?  
1) (a), (b) and (c)    2) (b) and (c) only    3) (c) only    4) (a) only
- 26) a) Though the highest point on the earth's surface is 8848 m, the average continental height is 875 m.  
b) Though the lowest point on the earth's surface is 11350 m, below mean sea level, the average ocean depth is 3729 m below sea level.

Answer options :

- 1) (a) and (b) True    2) (a) True (b) False    3) (a) False (b) True    4) (a) and (b) False

- 27) Match List-I (City) with List-II (River) and select the correct answer using the code given below the lists :

**List-I (City)**

- A) Washington  
B) Berlin  
C) Paris  
D) Madrid

**List-II (River)**

- i) River Manzanares  
ii) River Seine  
iii) River Spree  
iv) River Potomac

Answer options :

- |    | (A) | (B) | (C) | (D) |
|----|-----|-----|-----|-----|
| 1) | ii  | iii | iv  | i   |
| 2) | iv  | i   | ii  | iii |
| 3) | ii  | i   | iv  | iii |
| 4) | iv  | iii | ii  | i   |

- 28) Match the drainage basins labelled as A, B, C and D with the names listed below and select the correct answer using the codes given below the names of the drainage basins.

**Drainage Basins**



Not to scale

Names of drainage basins

- a) Ganga-Brahmaputra    b) Indus    c) Parana    d) Zambezi

Answer options :

- |    | (A) | (B) | (C) | (D) |
|----|-----|-----|-----|-----|
| 1) | 3   | 1   | 2   | 4   |
| 2) | 1   | 3   | 4   | 2   |
| 3) | 1   | 3   | 2   | 4   |
| 4) | 3   | 1   | 4   | 2   |



- 29) Consider the following statements and select correct answer using code given below :
- a) The Amazon River originates in the Andes Mountains and flows westwards and meets the Atlantic Ocean. Maraje is a large island at the mouth of this river and is surrounded by fresh waters.
  - b) Some trees in the Amazon basin grow to be 90 m (ninety metres) tall. Some other trees are poisonous, while some plants are parasitic.

**Answer options :**

- 1) (a) and (b) are true
  - 2) (a) is true (b) is false
  - 3) (a) is false (b) is true
  - 4) (a) and (b) are false
- 30) A layer in the Earth's atmosphere called Ionosphere facilitates radio communication. Why ?
- a) The presence of ozone causes the reflection of radio waves to Earth,
  - b) Radio waves have a very long wavelength.
- Which of the statements given above is/are correct ?
- 1) (a) only
  - 2) (b) only
  - 3) Both (a) and (b)
  - 4) Neither (a) nor (b)

- 31) Examine the statement A and statement B.

**Statement 'A' :** 35% solar energy is not useful for the heating of Earth's surface as well as atmosphere, that heat is called "Albedo of the Earth's surface".

**Statement 'B' :** Through Short Waves, Scattering and Reflection process of the air molecules, heat is transferred by the small dust particles, clouds and earth's surface in the space.

**Answer Options :**

- 1) Statement 'A' and 'B' are both true and 'B' is the correct explanation of 'A'
  - 2) Statement 'A' and 'B' are both true and 'B' is not the correct explanation of 'A'
  - 3) Statement 'A' is true but 'B' is false
  - 4) Statement 'A' is false but 'B' is true
- 32) Consider the following statements :
- a) In equatorial regions, the year is divided into four main seasons.
  - b) In Mediterranean region, summer receives more rain.
  - c) In China type climate, rainfall occurs throughout the year.
  - d) Tropical highlands exhibit vertical zonation of different climates.
- Which of these statements are correct ?
- 1) (a), (b), (c) and (d)
  - 2) (a), (b) and (c)
  - 3) (a), (b) and (d)
  - 4) (c) and (d)

- 33) The climate in the shaded area of the maps is of :



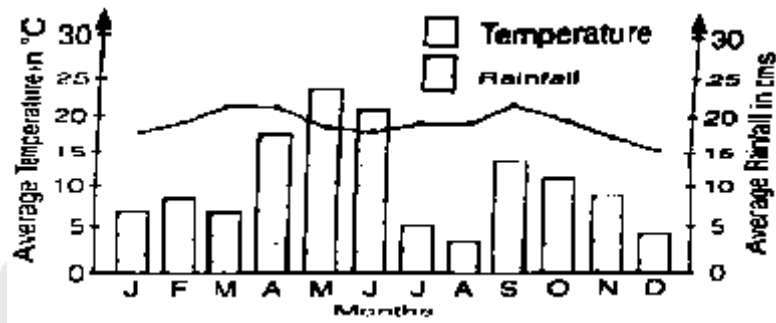
**Answer options :**

- 1) cold temperature oceanic type
- 2) Mediterranean type
- 3) monsoon type
- 4) temperate Grassland type

- 34) Temperature of four places is given below. Which of the four places has the most continental climate?

	<u>J</u>	<u>F</u>	<u>M</u>	<u>A</u>	<u>M</u>	<u>J</u>	<u>J</u>	<u>A</u>	<u>S</u>	<u>O</u>	<u>N</u>	<u>D</u>
1)	8	9	11	14	18	22	24	24	22	17	13	10
2)	24	24	27	28	30	29	27	27	27	28	27	25
3)	26	27	27	28	28	28	27	27	27	27	27	26
4)	-11	-9	-4	3	11	17	19	17	11	4	-2	-8

- 35) The graph given below shows the mean average monthly temperature (in °C) and mean monthly rainfall (in cms) of a place :



This graph is indicative of which one of the climatic zones of the world?

- |                         |                     |
|-------------------------|---------------------|
| 1) Wet and dry tropical | 2) Rainy tropical   |
| 3) Semi-arid tropical   | 4) Temperate marine |
- 36) The annual range of temperature in the interior of the continents is high as compared to coastal areas. What is/are the reason/reasons?
- Thermal difference between land water
  - Variation in altitude between continents and oceans
  - Presence of strong winds in the interior
  - Heavy rains in the interior as compared to coasts
- Select the correct answer using the codes given below.

**Answer Options :**

- |             |                     |                     |                       |
|-------------|---------------------|---------------------|-----------------------|
| 1) (a) only | 2) (a), (b) and (c) | 3) (a), (c) and (d) | 4) (a), (b), (c), (d) |
|-------------|---------------------|---------------------|-----------------------|
- 37) **Assertion (A) :** The amount of moisture in the atmosphere is related to latitude.  
**Reason (R) :** The capacity to hold moisture in the form of water vapour is related to temperature.  
**Answer options :**
- Both A and R individually true and R is the correct explanation of A
  - Both A and R are individually true but R is not the correct explanation of A
  - A is true but R is false
  - A is false but R is true

- 38) Consider the following climatic and geographical phenomena :
- |                 |                                  |              |                  |
|-----------------|----------------------------------|--------------|------------------|
| a) Condensation | b) High temperature and humidity | c) Orography | d) Vertical wind |
|-----------------|----------------------------------|--------------|------------------|
- Thunder Cloud development is due to which of these phenomena ?

**Answer options :**

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

39) Name of cyclones and their places of formation are given below :

<b>Name</b>	<b>Place of formation</b>
a) Tornado	i) Indian Ocean
b) Hurricane	ii) On Land
c) Typhoon	iii) West Indies Islands and Atlantic Ocean
d) Cyclones	iv) Sea of China and Pacific Ocean

**Select the option for correct pairs :**

	<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>
1)	(ii)	(iii)	(iv)	(i)
2)	(iv)	(iii)	(ii)	(i)
3)	(i)	(ii)	(iii)	(iv)
4)	(iii)	(iv)	(i)	(ii)

40) Observe the following statements :

- a) The cyclones on the coast of Philippines are known as Typhoons.
- b) Victor, Katrina are the names of Hurricane cyclones.
- c) The cyclones originating near the coast of Florida in U.S.A. are known as Tornadoes.

**Answer options :**

- 1) Only statement (a) is correct
- 2) Statements (a) and (b) are correct
- 3) Statements (b) and (c) are correct
- 4) Statements (a), (b) and (c) are correct

41) Match rivers labelled A, B, C & D on the given map with their names given in the list and select the correct answer using the codes given below the list :



**RIVERS -**

- i) St. Lawrence
- ii) Orinoco
- iii) Mackenzie
- iv) Amazon
- v) Yukon

**Answer options :**

- 1) A-iv, B-iii, C-ii, D-i
- 2) A-v, B-iii, C-i, D-ii
- 3) A-v, B-iv, C-i, D-iii
- 4) A-iii, B-i, C-iv, D-ii

42) **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 true and R is the correct explanation of A
- 2) Both A & R are true but R is not the correct explanation of A
- 3) A is true but R is false
- 4) A is false but R is true

43) Match the pairs of column A and column B :

**Column A (Local winds)**

- a) Chinook
- b) Fohn
- c) Loo
- d) Mistral

**Column B (Regions where they are found)**

- I) Alps mountains in Europe
- II) From South Europe to Mediterranean Sea
- III) Plain area of North India
- IV) Rocky Mountains in North America

**Answer Options :**

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

44) Consider the following temperature and rainfall data :

<i>Month</i>	<i>Temperature °C</i>	<i>Rainfall cm</i>
January	6.7	14.0
February	6.7	13.2
March	7.2	11.4
April	8.9	9.4
May	11.1	8.1
June	13.9	8.1
July	15.0	9.6
August	15.0	12.2
September	13.9	10.4
October	11.1	14.4
November	8.9	14.0
December	7.8	16.8

The climate to which this data pertains is

- 1) St. Lawrence type   2) China type   3) West European type   4) Mediterranean type

45) **Assertion (A) :** Areas near the equator receive rainfall throughout the year.

**Reason (R) :** High temperatures and high humidity cause conventional rain in most afternoons near the equator.

In the context of the above two statements, which one of the following is correct?

- 1) Both A and R are true and R is the correct explanation of A
- 2) Both A and R are 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

46) 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

47) Match the following :

**A Weather**

- a) Vapour pressure
- b) Bright sunshine duration
- c) Cloud cover
- d) Atmospheric pressure

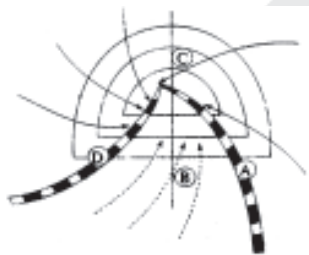
**Elements Units**

- I) Millibars/mm of Hg/Pascals
- II) mm of Hg
- III) Hrs.
- IV) Okta (0 to 8)

**Answer options :**

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

48) Which one of the areas marked as A, B, C and D in the given figure of the cyclone, witnesses heavy torrential short-duration rainfall accompanied by thunderstorms?



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

49) Why are dewdrops not formed on a cloudy night?

- 1) Clouds absorb the radiation released from the Earth's surface.
- 2) Clouds reflect back the Earth's radiation.
- 3) The Earth's surface would have low temperature on cloudy nights.
- 4) Clouds deflect the blowing wind to ground level.

50) Willy Willy is .....

- 1) a type of tree grown in temperate regions
- 2) a wind that blows in a desert
- 3) a tropical cyclone of the northwest Australia
- 4) a kind of common fish found near Lakshadweep islands