

Study Circle Career Development Institute

100 Important Points : SSP



(17) Geography : Earthquakes & Volcanoes, Geographical Features, Rivers & Projects

(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 : 17

- 1) Major contents and their proportions in the composition of the Earth's crust (up to 17 km depth)
- | | |
|---|-----------|
| a) Oxygen | i) 28.0 |
| b) Silicon | ii) 8.1 |
| c) Aluminium | iii) 47.0 |
| d) Iron | iv) 11.1 |
| e) Calcium, Sodium, Potassium and Magnesium | v) 9.5 |

Answer options :

- | | (a) | (b) | (c) | (d) | (e) |
|----|-------|-------|------|------|-------|
| 1) | (i) | (iii) | (v) | (iv) | (ii) |
| 2) | (iii) | (i) | (ii) | (v) | (iv) |
| 3) | (i) | (ii) | (v) | (iv) | (iii) |
| 4) | (iii) | (ii) | (i) | (v) | (iv) |
- 2) What are the evidence in favour of the Continental Drift Theory ?
Select the proper option -
- | | |
|-------------------------------|-------------------------|
| a) Jigsaw fit | b) Trans-current faults |
| c) Fossils in different areas | d) Convection in mantle |
- Answer Options :**
- | | | | |
|----------------|----------------|----------------|--------------------------|
| 1) (a) and (d) | 2) (b) and (c) | 3) (a) and (c) | 4) (a), (b), (c) and (d) |
|----------------|----------------|----------------|--------------------------|

- 3) Examine the following statements and select the proper option
Statement 'A' : Inner core of the Earth is made up by Nickel and Ferrous.
Statement 'B' : The Earth's crust is made up of Silics, Aluminium and Magnesium

Answer Options :

- | |
|--|
| 1) Statement 'A' and 'B' are both correct |
| 2) Statement 'A' is correct and 'B' is wrong |
| 3) Statement 'A' is wrong and 'B' is correct |
| 4) Statement 'A' and 'B' are both wrong |
- 4) Which type of earthquake waves have the following characteristics ?
- | |
|---|
| a) Travel in straight direction reaching the surface from the centre point of earthquake. |
| b) While travelling through the high density zone, the speed increases. |
| c) While travelling through the liquid zone, the speed decreases. |

Answer options :

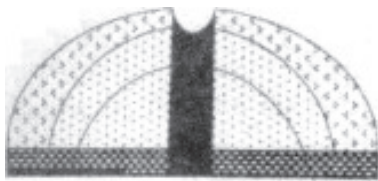
- | | | | |
|------------------|--------------------|------------------|-----------------|
| 1) Primary waves | 2) Secondary waves | 3) Surface waves | 4) Normal waves |
|------------------|--------------------|------------------|-----------------|

- 5) Which of the following statement / statements is/are relevant when explaining factors involved in the formation of fold mountain ?
- a) Lateral or horizontal Earth movements
 - b) Vertical Earth movements
 - c) Two continental blocks moving parallel in the same direction.

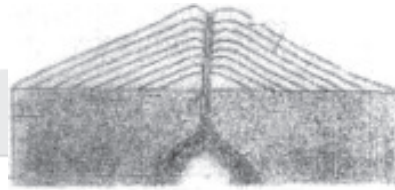
Answer Options :

- 1) Only (a) 2) (a) and (b) 3) (b) and (c) 4) All options

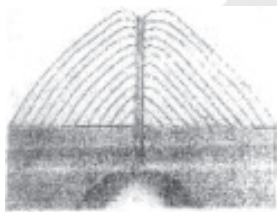
- 6) Select the proper option from the following figures of 'Relief Features' created by volcanic eruption :



(a)



(b)



(c)



(d)

Answer Options :

- | | |
|----------------------|-----------------------|
| 1) a) Acid Lava Cone | 2) a) Basic Lava Cone |
| b) Mixed Cone | b) Cinder Cone |
| c) Cinder Cone | c) Mixed Cone |
| d) Basic Lava Cone | d) Acid Lava Cone |
| 3) a) Acid Lava Cone | 4) a) Cinder Cone |
| b) Basic Lava Cone | b) Acid Lava Cone |
| c) Cinder Cone | c) Basic Lava Cone |
| d) Mixed Cone | d) Mixed Cone |

- 7) Match the following :

Column A

- a) Hawaiian Type
- b) Strombolian
- c) Vulcanian
- d) Peleean Type

Column B

- i) Erupt with great force
- ii) Most violent
- iii) Erupt quietly
- iv) Erupt continuously

Answer Options :

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

- 8) The earth crust is made up of various types of rocks. Which statement about the rocks given below is incorrect?
- 1) Sometimes the molten magma cools down deep inside the earth's crust. Since they cool down slowly they form fine grains. Granite is an example. They are igneous rocks.
 - 2) Grinding stones used to prepare paste/powder of spices and grains are made of granite.
 - 3) The Red Fort is made of sedimentary rocks.
 - 4) The Taj Mahal is made of metamorphic rocks.

- 9) Bermuda triangle extends up to which of the following places ?

- a) Southern Florida b) Puerto Rico c) Hawaii Islands

Select the correct answer using the code given below :

Answer Options :

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

- 10) Consider the following statements made about the sedimentary rocks :

- a) Sedimentary rocks are formed at earth's surface by the hydrological system.
- b) The formation of sedimentary rocks involves the weathering of preexisting rocks.
- c) Sedimentary rocks contain fossils.
- d) Sedimentary rocks typically occur in layers.

Which of these statements are correct ?

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

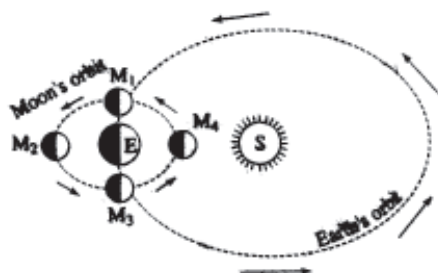
- 11) Match the pairs and choose correct options :

Rock	District
a) Gondwana series rocks	i) Yavatmal, Gadchiroli
b) Dharwar series rocks	ii) Sawantwadi, Vengurla
c) Archean series rocks	iii) Bhandara, Gondia
d) Vindhyan series rocks	iv) Chandrapur


Answer Options :

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

- 12) At which one of the following positions shown in the diagram will the height of the ocean tide be maximum?



- 1) M1 2) M2 3) M3 4) M4

- 13) Consider the following statements :
- Tides are of great help in navigation and fishing.
 - High tide enables big ships to enter or leave the harbour safely.
 - Tide prevents siltation in the harbours.
 - Kandla and Diamond Harbour are tidal ports.
- Which of these statements are correct?
- 1) (a) and (d) 2) (b), (c) and (c) 3) (a), (b) and (c) 4) (a), (b), (c) and (d)
- 14) Consider the following statements :
- Ocean currents are the slow-surface movement of water in the ocean.
 - Ocean currents assist in maintaining the Earth's heat balance.
 - Ocean currents are set in motion primarily by prevailing winds.
 - Ocean currents are affected by the configuration of the ocean.
- Which of these statements are correct ?
- 1) (a) and (b) 2) (b), (c) and (d) 3) (a), (c) and (d) 4) (a), (b), (c) and (d)
- 15) A new type of El Nino called El Nino Modoki appeared in the news. In this context, consider the following statements:
- Normal El Nino forms in the Central Pacific ocean whereas El Nino Modoki forms in Eastern Pacific ocean
 - Normal El Nino results in diminished hurricanes in the Atlantic Ocean but El Nino Modoki results in, a greater number of hurricanes with greater frequency
- 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)
- 16) Consider the diagram below :
- Letters A, B, C and D in the diagram represent sequential arrangement of basic topographical features along a coast, identify the correct sequence from the codes given below :
- 
- 1) Land, continental shelf, continental slope, deep sea plain
2) Land, continental slope, continental shelf, deep sea plain
3) Mountain, sea coast, continental slope, deep sea plain
4) Hill, continental slope, ocean deep, deep sea plain
- 17) The 2004 Tsunami made people, realize that mangroves can serve as a reliable safety hedge against coastal calamities. How do mangroves function as a safety hedge ?
- The mangrove swamps separate human settlements from the sea a wide zone in which people neither live nor venture out
 - The mangroves provide both food and medicines which people are in need of after any natural disaster
 - The mangrove trees are tall with dense canopies and serve as an excellent shelter during a cyclone or tsunami
 - The mangrove trees do not get uprooted by storms and tides because of their extensive roots

- 18) Which option is correct for the formation of a 'u' shaped valley?
a) Formed by river erosion
b) Formed by river deposition.
c) Formed by glacier erosion
d) Formed by glacier deposition.

Answer options :

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

- 19) Identify the correct sequence of the seas on the basis of increasing salinity.

I	II	III	IV
1) Dead Sea	Caribbean Sea	1) Andaman Sea	Baltic Sea
2) Baltic Sea	Andaman Sea	2) Caribbean Sea	Dead Sea
3) Andaman Sea	Baltic Sea	3) Caribbean Sea	Dead Sea
4) Baltic Sea	Caribbean Sea	4) Andaman Sea	Dead Sea

- 20) 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)

- 21) Following erosion features of environmental agents. Give proper sequence or match it :

- a) Sea waves i) Inselburg
b) Glaciers ii) 'V' shaped valley
c) River iii) Stack
d) Wind iv) 'U' shaped valley

Answer options :

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

- 22) Which of the following forces are responsible for the generation of Tsunami Waves ?

- a) Vertical displacement of water due to earthquakes
b) Horizontal displacement of water due to earthquakes
c) Violent volcanic eruptions in the Oceans
d) Rapid mass movements on the Seafloor

Answer Options :

- 1) (a) and (b) 2) (c) and (d) 3) (b) and (c) 4) All of the above

- 23) On the planet earth, most of the freshwater exists as ice caps and glaciers. Out of the remaining freshwater, the largest proportion

- 1) is found in atmosphere as moisture and clouds.
2) is found in freshwater lakes and rivers.
3) exists as groundwater
4) exists as soil moisture

- 24) Mediterranean Sea is a border of which of the following countries?
a) Jordan b) Iraq c) Lebanon d) Syria
Select the correct answer using the code given below :
1) (c) and (d) only 2) (a), (b) and (c) 3) (a), (c) and (d) 4) (a), (b), (c), (d)

- 25) What is inselberg?
1) Land form produced by erosional work of wind in desert area.
2) Land form produced by erosional work of river.
3) Land form produced by depositional work of wind in desert area.
4) Land form produced by depositional work of glacier.

- 26) Consider the following statements :
a) Total land area of Earth is approximately 1475 lakh square kilometers
b) Ratio of land area to water area of Earth is approximately 1 : 4
c) Maximum percentage of Earth's water is in the Pacific Ocean
Which of the statement given above is/are correct?
1) (a) and (b) 2) (b) and (c) 3) (a) only 4) (c) only

- 27) Which one of the following pairs is *not* correctly matched?

City	River
1) Berlin	: Rhine
2) London	: Thames
3) New York	: Hudson
4) Vienna	: Danube

- 28) Consider the following statements :
a) In the world, the tropical deserts occur along the western margins of continents within the trade wind belt.
b) In India, the East Himalayan region gets high rainfall from north-east winds.
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)

- 29) Match the following :

Column I (Mountain)	Column II (Type)
a) Black forest	i) Residual
b) Appalachians	ii) Block
c) Rajmahal	iii) Volcanic
d) Popa	iv) Fold

Answer options :

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

- 35) Which of the following factors determine diurnal and seasonal variation in intensity and amount of solar radiation?
- a) Inclination of the axis of the earth b) Length of the day
c) Extent of clouds d) Angle of inclination of the Sun's rays

Answer options :

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

- 36) "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

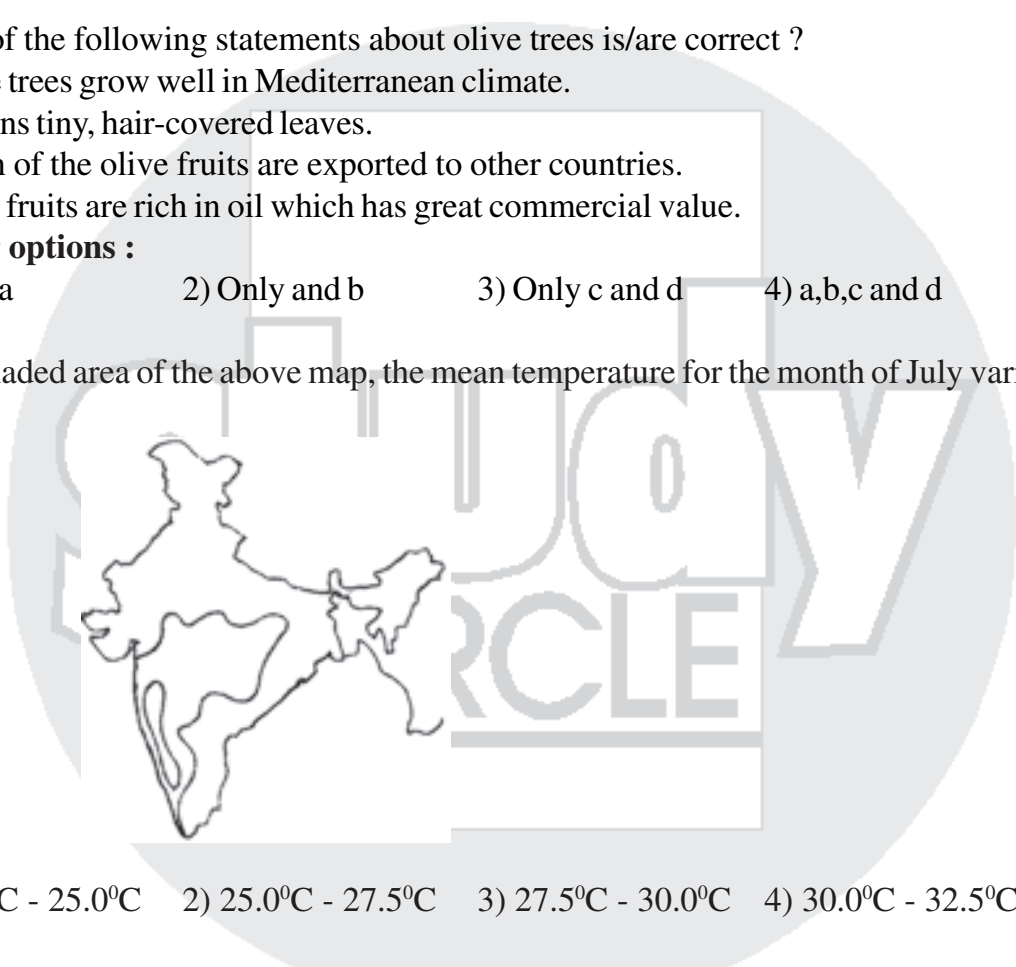
- 37) Which of the following statements about olive trees is/are correct ?

- a) Olive trees grow well in Mediterranean climate.
b) It bears tiny, hair-covered leaves.
c) Much of the olive fruits are exported to other countries.
d) Olive fruits are rich in oil which has great commercial value.

Answer options :

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

- 38) In the shaded area of the above map, the mean temperature for the month of July varies between



- 1) 22.5°C - 25.0°C 2) 25.0°C - 27.5°C 3) 27.5°C - 30.0°C 4) 30.0°C - 32.5°C

- 39) The temperature and rainfall of a meteorological station are given below :

	<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>
Temperature (°C)	9.4	0.6	11.7	12.2	13.3	13.9	13.9	14.4	15.6	15.0	13.3	10.6
Rainfall (cm)	12.2	9.1	7.9	2.5	1.8	0.3	--	--	0.8	2.5	6.1	11.7

Average Temperature : 12.8°C

Average Rainfall : 54.9 cm per annum

Identify the region having the above climatic pattern from amongst the following:

- 1) Mediterranean region 2) Monsoon region
3) Steppe region 4) N. W. European region

40) Examine the truthness of the following statements :

Statement 'A': While going from mean sea level to upward side, the temperature of air decreases. It is called Normal Temperature Lapse Rate.

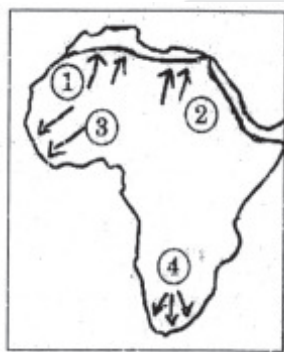
Statement 'B': While going from mean sea level to upward side, the air temperature increases instead of decreasing. It is called inversion of temperature.

Answer Options :

- 1) Statements 'A' and 'B', both are true.
- 2) Statements 'A' and 'B', both are false.
- 3) Statement 'A' is true, but statement 'B' is false.
- 4) Statement 'A' is false, but statement 'B' is true.

41) Match the four local winds marked as ①, ②, ③, ④ in the following map :

- 1) Sirocco 2) Khamsin 3) Harmattan 4) Berg



Answer options :

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

42) Which of the following characteristics is/are **correct** to Doldrums ?

- a) It is very powerful low pressure area.
- b) It is found between 5⁰ N and 5⁰ S latitude of Equator.
- c) There is uneven pressure gradient.

Answer options :

- 1) Only (c) is correct
- 2) Only (b) and (c) are correct
- 3) Only (a) and (b) are correct
- 4) All are correct

43) **Assertion (A) :** The surface winds spiral inwards upon the centre of the cyclone.

Reason (R) : Air descends in the centre of the cyclone.

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

44) Identify the correct statements from the following :

Statement 'A' : The weight of water vapour per unit volume of air in specific temperature is called relative humidity.

Statement 'B' : Specific humidity is the ratio of air water vapour content to its water vapour capacity at a given temperature.

Answer options :

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

45) Match the following :

Column-I (Local Wind)

- a) Foehn
- b) Chinook
- c) Harmattan
- d) Zonda

Column-II (Country/region)

- i) West Africa
- ii) Chile
- iii) Alps
- iv) Rockies

Answer options :

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

46) Consider the Table of climatic data :

Towns	Temperature (°C)		Rainfall (MM)	
	Jan	July	Jan	July
a)	11	10	475	575
b)	2	22	5	155
c)	20	28	250	300
d)	10	30	35	0.5

In general which two towns appear to have coastal location? Select the answer from the following location?

Answer options :

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

47) **Assertion (A) :** Anticyclonic conditions are formed in winter season when atmospheric pressure is high and air temperatures are low.

Reason (R) : Winter rainfall in Northern India causes development of anticyclonic conditions with low temperatures.

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.

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

49) Consider the following climatic conditions (northern hemisphere) :

<i>Months</i>	<i>Temperature (°C)</i>	<i>Rainfall (Cm)</i>
January	3.9	4.7
February	4.4	5.7
March	8.3	8.2
April	14.4	9.2
May	20.0	9.2
June	23.3	17.7
July	27.8	14.5
August	27.8	14.5
September	22.3	12.7
October	18.3	7.0
November	12.2	5.0
December	6.7	3.5

These are most likely to be found in the natural regions of :

- 1) China type 2) Equatorial type 3) Hot desert type 4) Monsoon type

50) Which forecast is based on synoptic considerations and operational numerical weather predictions?

- a) Now casting b) Short range c) Medium range d) Long range

Answer options :

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