

DIRECTION

1. Consider the following in regards to Thar desert ;
 1. The region ,of moving sand and low rainfall is called Marusthali
 2. During Mesozoic era it was under the sea
 3. Upliftment took place during Pleistocene
 4. Only flow luni has fresh upper course and salty lower course

Which of the statements given above is/are correct ?

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

2. Match List-I with List-II and select the correct answer :

List- I (Peaks)	List- II (Ranges)
A. Dodabetta	1. Nilgiri Hills
B. Nanda Devi	2.Himalaya Mountains
C. Amar Kantik	3. Aravalli Range
D. Guru Sikhhar	4. Maikal Range

Code

	A	B	C	D
(a)	2	1	3	4
(b)	3	2	1	4
(c)	1	2	4	3
(d)	4	1	2	3

3. The most plausible explanation of the location of the Thar desert in Western India is ;
 - (a) The obstruction caused by the Aravallis to the rainbearing wind that proceeds to the Ganga Valley
 - (b) The Prevalance of comparative high pressure
 - (c) The absence of mountains to the north of Rajasthan to cause orographic rainfall
 - (d) That the moisture carried by the south-west monsoon is driven away by the dry upper air current.
4. Consider the location of mounts in India which one of the following is in right sequence from South to North.
 - a) Kalsubai,Mahabaleshwar,Salher, Kudremukh
 - b) Salher,Kalsubai,Mahabaleshwar, Kudermukh
 - c) Kudremukh ,Mahabaleshwar,Kalsubai, Salher
 - d) Kudremukh,Kalsubai,Mahabaleshwar, Salher
5. Which one of the following states does **not** form part of the Narmada basin?

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- (a) Madhya Pradesh (b) Rajasthan
(c) Gujarat (d) Maharashtra

6. Which one of the following is the correct sequence of the age of formation from the youngest to the oldest of the given mountain ranges

- (a) Himalayas ,Vindhyas ,Western Ghats
Deccan Traps
(b) Deccan Traps ,Western Ghats ,
Vindhyan, Himalayas
(c) Himalayas ,Deccan Traps ,Vindhyan
Western Ghats
(d) Vindhyan,Himalayas , Deccan Traps
Western Ghat

7. Consider the following pairs ;

- 1) Devprayag - Bhagirathi confluence
with Alaknanda
2) Rudraprayag - Mandakini
confluence with
Alakanda
3) Karnaprayag - Pindari confluence
with Alakanda
4) Prayag - Dhauli confluence
with Vishnu Ganga

Correct ones are

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

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

List- I	List- II
(Pre Monsoon Shower)	(States)

- | | |
|-------------------|----------------|
| A. Kal Baishakhi | 1. Maharashtra |
| B. Cherry Blossom | 2. Karnataka |
| C. Tea Showers | 3. Assam |
| D. Mango Showers | 4. West Bengal |

Code

	A	B	C	D
(a)	4	3	1	2
(b)	4	1	2	3
(c)	4	2	1	3
(d)	4	2	3	1

9. Consider the following statements

1. Indus Tsangpo Suture zone forms the boundary of Eurasian and Indian Plates
2. Main boundary thrust is dominated with alluvium deposits

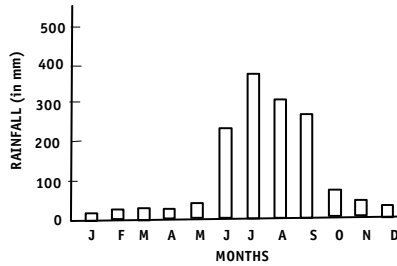
Which of the statements given above is/are correct ?

- (a) Only 1 (b) Only 2
(c) Both 1 and 2 (d) Neither 1 nor 2

10. The mean monthly rainfall diagram below depicts the rainfall distribution

pattern of:

- (a) Allahabad
- (b) Lucknow
- (c) Nagpur
- (d) Vadodara



11. Consider the following pairs incorrect one is ;

- (a) Thalghat gap - Gateway of Mumbai
- (b) Jabalpur gap - Mahadeo-Maikala ranges
- (c) Shenkotta gap - Gateway of SW Monsoon in Tamil Nadu
- (d) Bhorghat gap - Gateway of Konkan

12. Which of the following factors forms the causes of the Godavari being designated as Dakshin or Vridha Ganga

- (A) Location (B) Age
- (C) Size (D) Length

Code

- (a) A C D (b) A B C
- (c) A B C D (d) B C D

13. Winter Monsoons do not cause rainfall in India in general comparison to summer Monsoon because of ;

- (A) being offshore
- (B) having less humidity
- (C) anti Cyclonic Circulation on land
- (D) absence of favourable Orographic barriers

Codes

- (a) A B C D (b) A B C
- (c) B C D (d) A C D

14. Consider the following statements

1. Assam -Burma Mountains owes there development to underthrusting of Indian and Burmese plates
2. Closing of Tethys sea started during Cretaceous

Which of the statements given above is/are correct ?

- (a) Both 1 and 2 (b) Neither 1 nor 2
- (c) Only 1 (d) Only 2

15. Consider the following statements

1. India is divided into 5 seismic zones
2. Andaman island ,North East states and Kutch Peninsula are in zone 5
3. Himalayas region generally belong to zone 4
4. Lakshadweep island, Godavari and Krishna delta belong to zone 3

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Which of the statements given above is/are correct ?

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

16. Consider the following statements

1. Number and frequency of cyclones in Bay of Bengal is less than Arabian sea
2. Drought is mainly caused by precipitation variations in both amount and time

Which of the statements given above is/are correct ?

- (a) Only 1 (b) Only 2
(c) Both 1 and 2 (d) Neither 1 nor 2

17. The correct order of four geological era in India is :

- (a) Purana ,Archean ,Aryan ,Dravidian
(b) Archean ,Dravidian ,Purana ,Aryan
(c) Archean,Aryan, Dravidian, Purana
(d) Archaen, Purana, Dravidian, Aryan

18. Western arid plain of Rajasthan has which one of the following as its best feature ;

- (a) Rohi (b) Dhands
(c) Dhayas (d) Dharians

19. Match List-I with List-II and select the

correct answer

List- I

(Waterfalls)

- A. Jog
B. Bheraghat
C. Sivasamudram
D. Hundru

List- II

(Rivers)

1. Narmada
2. Cauvery
3. Subarnarekha
4. Sharavati

Code

	A	B	C	D
(a)	1	4	3	2
(b)	1	4	2	3
(c)	4	1	3	2
(d)	4	1	2	3

20. Which of the following gives the correct descending order by length of the river of India.

- (a) Brahmaputra, Ganga, Godavari, Kosi
(b) Ganga , Brahmaputra, Krishna , Kosi
(c) Ganga , Godavari , Krishna , Yamuna
(d) Ganga, Yamuna ,Godavari ,Mahanadi

21. The delta forming rivers in India are

- (a) Ganges – Mahanadi – Narmada
(b) Krishna – Ganges – Tapti
(c) Cauvery – Ganges – Mahanadi
(d) Narmada – Tapti – Krishna

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22. Consider the following pairs

- A. Saddle Peak - North Andaman
- B. Koyob Peak - Little Andaman
- C. Thuiller Peak - Great Nicobar
- D. Diavolo Peak - Middle Andaman

Which of the statements given above is/are correct ?

- (a) A B C D (b) A C D
- (c) A B D (d) B C D

23. The Western and eastern limits of Siwaliks are ;

- (a) Jammu and Kalimpong
- (b) River Indus and Kosi
- (c) Sutlej and Kali
- (d) Potwar Basin and Dihang

24. The volcanic islands of Indian territory are;

- (a) Kavaratti and New Moor
- (b) Great Andaman and Little Andaman
- (c) Narcondam and Barren
- (d) Pamban and Barren

25. Consider the following statement

- 1) Beginning of Indo Gangetic basin
- 2) Formation of main central thrust
- 3) Formation of Himalayan frontal fault

Correct chronological order of events in evolution history of Northern Mountain wall will be

Which of the statements given above are correct ?

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

26. Which one of the water bodies separates the Andaman from the Nicobar

- (a) 11° Channel (b) 10° Channel
- (c) Gulf of Mannar (d) Andaman Sea

27. Match List-I and List-II and select the correct answer from the code given below the lists:

List - I

List - II

(Major Dam)

(States)

- A. Nagarjun Sagar 1. Uttar Pradesh
- B. Indira Sagar 2. Andhra Pradesh
- C. Mayurakshi 3. Madhya Pradesh
- D. Matatila 4. West Bengal

Code

- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | 1 | 2 | 3 | 4 |
| (b) | 2 | 3 | 4 | 1 |
| (c) | 3 | 2 | 1 | 4 |
| (d) | 4 | 3 | 2 | 1 |

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28. The important ranges of the Dhauladhar and Pirpanjal are located in the :

- (a) Trans-Himalaya (b) Great Himalaya
(c) Lesser Himalaya (d) Outer Himalaya

29. Main Central Thrust is located between ;

- (a) Shiwaliks and Inner Himalayas
(b) Shiwaliks and Lesser Himalayas
(c) Middle and Inner Himalayas
(d) Greater and Lesser Himalayas

30. Which of the following statements are true ;

- (1) Kovalam Beach is in Tiruvanathapuram
(2) The longest beach of India is Mariana Beach
(3) Kodiakanal and Ooty are situated in Palni and Nilgiri respectively
(4) Panchmarhi is located in Maikal Range

Which of the statements given above is/are correct ?

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

31. Which of the following statements is **not** correct

- (a) The Gangotri and the Kedernath glacier are fed by Gangotri Himal
(b) Milam and Pindari glacier have their source in Nandadevi Himal
(c) Zemu glacier is in Sikkim Himalaya
(d) Skamiri glacier is in Greater Himalaya

32. One of the reasons of greater width of east coast plain of India is that

- (a) the eastern Coastline is depositional submergent
(b) the eastern Coastline is depositional emergent
(c) river flowing into the Bay of Bengal are Perennial
(d) Many of the rivers in this region forms estuaries

33. When one travels from the Siwalik towards south to the Gangetic plain, the correct sequence of regions that he will cross is ;

- (a) Bhabar, Terai, Bhangar, Khadar
(b) Bhangar, Terai, Bhabar, Khadar
(c) Terai, Bhabar, Bhangar, Khadar
(d) Bhangar, Bhabar, Terai, Khadar

34. San Andras fault passes through which of the following?

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- (a) Beaufort Sea and Rocky Mountains
- (b) Pacific Ocean north of San Francisco and Gulf of California
- (c) Bering Strait and Alaska Range
- (d) Mackenzie Mountains and Western Cordillera

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

List - I <i>(Classification of valleys)</i>	List - II <i>(Characteristic of valley)</i>
A. Consequent valley	1. draining in a direction opposite to that of the original consequent valleys
B. Subsequent valley	2. showing no apparent adjustment to Structural control
C. Insequent valley	3. course shifted from the original consequent ones to more readily

- D. Obsequent valley
- 4. course determined by the initial Slope of the land
- 5. valleys draining in the direction opposite to rock dip.

Code:

	A	B	C	D
(a)	4	3	2	1
(b)	2	1	4	3
(c)	4	3	1	2
(d)	2	4	5	3

36. Nine Degree Channel separates:

- (a) Car Nicobar and Great Nicobar
- (b) Lakshdweep and Minicoy
- (c) Little Andman and Car Nicobar
- (d) North Andman and South Andman

37. Which one of the following has the volcanic Mount St. Helens?

- (a) Aleutian Range
- (b) Alaska Range
- (c) Cascade Range
- (d) Mohave Desert

38. Which one of the following represents

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wall like formation of solidified magma and are mostly perpendicular to the beds of the sedimentary rocks?

- (a) Dyke (b) Sills
(c) Lalpilli (d) Breccia

39. Which of the following is/are the correct characteristic(s) of primary seismic wave?

- (a) It is a longitudinal and compressional wave.
(b) It is analogous to sound waves.
(c) It travels with faster speed through solids but slowly through liquids.
(d) All the above three.

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

List - I	List - II
A. N. Vietnam	1. Si-Kiang
B. S. Vietnam	2. Salween
C. China	3. Red river
D. Myanmar	4. Mekong river

Code:

	A	B	C	D
(a)	3	4	1	2
(b)	2	1	3	4
(c)	3	4	1	2
(d)	4	2	1	3

41. Fiords are very typical of the:

- (a) Alaskan coast
(b) Spanish coast
(c) Norwegian coast
(d) Peruvian coast

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

List - I	List - II
(Continents)	(Deserts)
A. Asia	1. Atacama
B. Africa	2. Mojave
C. North America	3. Kalahari
D. South America	4. Gobi

Code:

	A	B	C	D
(a)	3	1	2	4
(b)	4	3	1	2
(c)	4	3	2	1
(d)	2	4	3	1

43. Which one of the following provides the force needed to drive the atmospheric circulation?

- (a) Higher biotic content of the tropical latitudes and lower biotic content of the polar latitudes.
(b) The energy contrasts between high insolation tropical latitudes and the low insolation polar latitudes.
(c) Higher rotational speed of lower latitudes and lower rotational speed of

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higher latitudes.

- (d) Equatorial radius of the earth is longer than the polar radius.

44. Which of the following statements is correct?

The innermost region of a hurricane is known as hurricane eye where:

- (a) temperature is abnormally low and pressure is the lowest.
- (b) sky is clear and temperature is the lowest.
- (c) temperature is abnormally high and pressure is the lowest.
- (d) sky is under dense cloud cover and pressure is the lowest.

45. The clouds extending from one side of horizon to other as a dark grey sheet having uniform base are called:

- (a) stratus clouds
- (b) cumulus clouds
- (c) cirrus clouds
- (d) nimbus clouds

46. Which one of the following statements is correct?

“ Hurricanes ”

- (a) form at the equator
- (b) are not as large as tornadoes
- (c) develop over warm ocean areas
- (d) tend to intensify when they move over

land surfaces.

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

List - I <i>(Types of clouds)</i>	List - II <i>(Regions)</i>
A. Convective cloud	1. Forced lifting of stable air
B. Layer cloud	2. Adiabatic expansion and cooling due to rapid local reduction in pressure
C. Orographic cloud	3. Local ascent of warm, buoyant air parcel in a conditionally unstable environment
D. Funnel cloud	4. Forced lifting of air as it passes over mountains or hills.

Code

	A	B	C	D
(a)	3	4	1	2
(b)	4	1	3	2
(c)	1	4	2	3
(d)	4	1	2	3

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- 48.** Most of the weather phenomena take place in troposphere only because:
- (a) temperature remains almost constant in troposphere.
 - (b) it contains electrically charged particles
 - (c) it absorbs harmful ultraviolet radiation from the sun.
 - (d) it contains almost all the water vapour and most dust particles.

- 49.** A blackhole is a:
- (a) contracted star with intense gravitational pull
 - (b) star with very low surface temperature
 - (c) star with no atmosphere
 - (d) pulsating star

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

List - I	List - II
(Layers of Atmosphere)	(Characteristics)
A. Stratosphere	1. Temperature decrease with increasing height
B. Exosphere	2. Aurora Boreal's and Aurora Australis are produced.
C. Troposphere	3. Contains much of the total atmospheric ozone

- D. Ionosphere
- 4. No ethereal clouds are observed over high latitude in summer.
- 5. Atoms of oxygen, hydrogen and helium from the tenuous atmosphere

Code

	A	B	C	D
(a)	5	3	2	4
(b)	3	5	1	2
(c)	3	5	2	4
(d)	5	3	1	2

51. The actual moisture content of a sample of air as a percentage of that contained in the same volume of saturated air at the same temperature is called:

- (a) absolute humidity
- (b) relative humidity
- (c) specific humidity
- (d) vapour pressure

52. The main cause of Kalahari being a desert is:

- (a) the cold currents near the coast.
- (b) its location on the west coast in the tropics.
- (c) its location in the tropics.
- (d) that its people are primitive.

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53. Which one of the following sequences correctly indicates the increasing order of the distance from the coast?

- (a) Abyssal plain – continental shelf – continental slope – continental rise
- (b) Continental shelf – continental slope – continental rise – abyssal plain
- (c) Continental slope – continental shelf – abyssal plain – continental rise
- (d) Continental slope – abyssal plain – continental rise – continental shelf

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

List-I	List-II
(Name of Ocean)	(Ocean current)
A. Agulhas current	1. North Atlantic
B. El Nino current	2. South Atlantic
C. Kuroshio current	3. North Pacific
D. Benguela current	4. South Pacific
	5. Indian Ocean

Code

	A	B	C	D
(a)	2	3	1	5
(b)	5	4	3	2
(c)	2	4	3	5
(d)	5	3	1	2

55. Consider the following statements:

- 1. Where fold mountain run parallel and close to the coast, continental shelf is narrow or absent.

- 2. The average depth for continental shelf is 100 metres.
- 3. Submarine canyons are mostly found in continental slope.
- 4. The submarine flat topped mountains are called guyots.

Which of the statements given above are correct?

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

56. Which one of the following sequence in the increasing order of salinity concentration in their waters is correct?

- (a) Gulf of California – Baltic Sea – Red Sea – Arctic Ocean
- (b) Baltic Sea – Arctic Ocean – Gulf of California – Red Sea
- (c) Red Sea – Gulf of California – Arctic Ocean – Baltic Sea
- (d) Arctic Ocean – Gulf of California – Baltic Sea -Red Sea

57. Spring tide means:

- (a) higher high tide, higher low tide
- (b) higher high tide, lower low tide
- (c) lower high tide, lower low tide
- (d) lower high tide, higher low tide

58. 'Saddle peak' the highest peak of Andaman and Nicobar islands is located in.

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- (a) Great Nicobar
- (b) Middle Andaman
- (c) Little Andaman
- (d) North Andaman

59. High temperature and low pressure over the Indian sub-continent during the summer season draws air from the Indian Ocean leading to the in-blowing of the

- (a) Southeast monsoon
- (b) Southwest monsoon
- (c) Trade winds
- (d) Westerlies

60. Match List I with List II and select the correct answer:

List - I <i>(Climatic condition)</i>	List - II <i>(Reasons)</i>
A. Chennai is warmer than Kolkatta	1. Northeast Monsoon
B. Snowfall in Himalayas	2. Altitude
C. Rainfall decreases from West Bengal to Punjab	3. Western depressions
D. Sutlej-Ganga Plain gets some rain in winter	4. Distance from sea

Code :

- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | 3 | 5 | 1 | 4 |
| (b) | 2 | 1 | 3 | 4 |
| (c) | 5 | 2 | 4 | 3 |
| (d) | 1 | 4 | 2 | 5 |

61. Arable land in the irrigated zones of India is turning saline due to which of the following reasons ;

- (a) Addition of gypsum
- (b) Over grazing
- (c) Over irrigation
- (d) Use of fertilizers

62. Match List I with List II and select correct answer:

List - I	List - II
A. Deccan Traps	1. Azoic
B. Western Ghats	2. Paleozoic
C. Aravali	3. Cenozoic
D. Narmada-Tapi	4. Neozoic

Alluvial deposits

Code :

- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | 3 | 1 | 2 | 4 |
| (b) | 2 | 1 | 3 | 4 |
| (c) | 3 | 1 | 2 | 4 |
| (d) | 1 | 4 | 2 | 3 |

63. The Palk Bay lies between.

- (a) Gulf of Kachchh and Gulf of Khambhat.
- (b) Gulf of Mannar and Bay of Bengal.
- (c) Lakshadweep and Maldive Islands.
- (d) Andaman and Nicobar Islands.

64. Diamond Ring is a phenomenon observed

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- (a) At the start of a total solar eclipse.
- (b) At the end of a total solar eclipse.
- (c) Only along the peripheral regions of the totality trail.
- (d) Only in the central regions of the totality trail.

65. In the map the marked area shows which one of the following ranges of annual rainfall received by that area ?



- (a) Less than 50 cm
- (b) Between 50 and 100 cm
- (c) Between 100 and 200 cm
- (d) More than 200 cm

66. Which of the following statements is **not** true ;

- (a) The Bharathapuzha is the longest rivers of Kerela
- (b) The Sarvathi has famous Gersoppa falls
- (c) Periyar is small river in TamilNadu
- (d) Zuari forms the significant stream in Goa.

67. Which one of the following is Not a lagoon?

- (a) Ashtamudi lake
- (b) Chilka lake
- (c) Periyar lake
- (d) Pulicat lake

68. Which of the following passes and location is/are wrongly matched ?

- 1. Zojila and Burzil : Jammu and Kashmir
- 2. Bara Lapcha La and Shipki-La : Uttarakhand
- 3. Thaga La, Niti Pass and LipuLekh : Himachal
- 4. Nathu La and Jelep La : Sikkim

Codes

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

69. Which one of the following is **not** a fact regarding South India.

- (a) Diurnal range of temperature is less here
- (b) Annual range of temperature is less here
- (c) Temperature are high throughout the year
- (d) Extreme climatic conditions are found here

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70. Consider the following statements

1. The transition from the summer monsoon to the period of retreating monsoon occurs with withdrawal of South West monsoon current
2. Easterly depressions generally develop as tropical revolving storms

Which of the statements given above is/are correct ?

- (a) Only 1 (b) Only 2
(c) Both 1 and 2 (d) Neither 1 nor 2

71. Consider the following Statements

1. Pachham and Bela are the inland island of Rann of Kutch
2. Gujarat coast forms emergent coast type

Which of the statements given above is/are correct ?

- (a) Only 1 (b) Only 2
(c) Both 1 and 2 (d) Neither 1 nor 2

72. Consider the following statements :

1. The Lakshadweep Islands represent coral islands
2. The Andaman and Nicobar Islands represent detached parts of the continental blocks.

Which of the statements given above is/are correct ?

- (a) 1 only (b) 2 only

- (c) Both 1 and 2 (d) Neither 1 nor 2

73. With the help of the code given below pick out the correct sequence of the following hills from North to South:

1. Anaimalai Hills
2. Palni Hills
3. Cardamom Hills

Correct Order North to South Hills

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

74. Match List-I and List-II and select the correct answer from the code given below the lists:

List - I

List - II

(Drainage Pattern)

(Tributaries)

- | | |
|----------------|------------------------|
| A. Obsequent | 1. Kunderu, Penneru |
| B. Parallel | 2. Hagari, Varada |
| C. Rectangular | 3. Hemavati
Shimsha |
| D. Dendritic | 4. Panjhra, Girna |

Code

- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | 4 | 3 | 1 | 2 |
| (b) | 4 | 1 | 3 | 2 |
| (c) | 3 | 1 | 4 | 2 |
| (d) | 3 | 2 | 4 | 1 |

75. Bugyals the summer grasslands related to

- (a) Himadri
- (b) Himachal range
- (c) Shivalik range
- (d) Deosarimountain

76. Under normal conditions, which one of the following is the correct sequential developments of features made by fluvial action?

- (a) Waterfalls - Meander bars - River terraces - Oxbow lakes
- (b) Meander bars - River terraces - Water falls - Oxbow lakes
- (c) Waterfalls - River terraces - Meander bars - Oxbow lakes
- (d) River terraces - Meander bars - Water falls - Oxbow lakes

77. The term 'truncated spur' is associated with which one of the following?

- (a) Aeolian process
- (b) Fluvial process
- (c) Glacial process
- (d) Weathering process

78. Consider the following:

1. The Dead Sea.
2. The Red Sea.

Which of the above is/are Rift Valley/Rift

Valleys?

- (a) 1 only
- (b) 2 only
- (c) 1 and 2
- (d) Neither 1 nor 2

79. When does escarpment develop?

- (a) When a block steps down along a fault plane.
- (b) When a block moves down vertically along a fault plane.
- (c) When a block moves horizontally along a fault plane.
- (d) When a block moves upward along a fault plane.

80. Consider the following statements:

1. P-waves are the first seismic waves to reach a place.
2. S-waves travel only through liquids.
3. Arrival time of P and S-waves is used to locate the epicenter.
4. Richter scale is a logarithmic scale.

Which of the above statements are correct?

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

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

DIRECTION

List - I (Technical Terms)	List - II (Definitions)	A	B	C	D
A. Magma Chamber	1. A point on earth's surface where impact of the earthquake is felt maximum.	(a) 3	1	2	4
B. Epicentre	2. An opening in the earth's crust which magma flows out.	(b) 3	2	1	4
C. Vent	3. A point below the earth's surface where earthquake originates	(c) 4	2	1	3
D. Seismic Focus	4. A place below the earth's surface where lava is formed and acts as a Source of magma outflow	(d) 4	1	2	3
Code:					
		82. Hawaii Islands are known for active volcanoes because: (a) they are located in the subduction zone of covering plates. (b) faults and fractures are found there. (c) they are situated over a hot plume (d) they are situated on a mild oceanic ridge with rising convective currents.			
		83. Which of the following factors influence the type and rate of weathering? 1. Glacier 2. Climate 3. Vegetation cover 4. Rock surface 5. Topography Select the correct answer using the codes given below: (a) 1, 2, 3 and 4 (b) 2, 3, 4 and 5 (c) 1, 2, 3 and 5 (d) 1, 2 4 and 5			
		84. 'Water table' refers to: (a) the lower limit of the zone of saturation. (b) the upper limit of the zone of saturation. (c) seepage of water into fissures lying underground			

(d) the contact zone of the permeable and impermeable rocks.

85. The river of Africa are as large as those in North or South America, but they do not attract much transport because:

- (a) they pass through the dense forest
- (b) the people there are not commercial minded
- (c) their courses are broken by cataracts and water falls
- (d) they traverse through resource poor area

86. Which one of the following climates is found in coastal areas of California in North America, Central Chile in South America and South-West tip of West Australia?

- (a) Tropical savanna
- (b) Mediterranean
- (c) Humid continental
- (d) Low-latitude steppe

87. Which one of the following statements is correct?

Collision – coalescence process of precipitation is applicable to:

- (a) clouds which extend beyond freezing level.
- (b) all types of clouds.
- (c) cumulo-nimbus clouds.

(d) those clouds which do not extend beyond the freezing level.

88. What are the causes for adiabatic temperature changes in the atmosphere?

- (a) Convection and advection
- (b) Latent heat of condensation
- (c) Expansion and compression of air
- (d) partial absorption of solar radiation by the atmosphere.

89. Temperature generally decreases towards the poles because:

- (a) air movement is generally towards the equator.
- (b) cold polar air masses prevent surface heating of the land.
- (c) cold surfaces do not absorb solar energy as readily as warm surfaces.
- (d) progressively less solar energy per unit area falls on the earth's surface as we move to polar regions.

90. Which of the following are source regions of polar continental air masses?

1. North America
2. Australia
3. North Atlantic
4. Antarctica

Select the correct answer using the codes given below:

DIRECTION

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

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

List - I	List - II
(Cloud)	(Characteristics)

- | | |
|-------------|---------------------------|
| A. Cirrus | 1. Rain giving |
| B. Stratus | 2. Feathery appearance |
| C. Nimbus | 3. Vertically growing |
| D. Cirrulus | 4. Horizontally spreading |

Code

	A	B	C	D
(a)	2	1	4	3
(b)	3	4	1	2
(c)	2	4	1	3
(d)	3	1	4	2

92. A relatively small rotating funnel that extends downward from the base of a towering cloud with thunder, lightning and strong gusty wind is known as:

- (a) hurricane
- (b) tornado
- (c) tropical cyclone
- (d) extratropical cyclone

93. Which one of the following regions receives the rainfall throughout the year

due to westerly winds?

- (a) South-West Australia
- (b) Iran and Iraq
- (c) South Africa
- (d) South Chile

94. Thunderstorms originate from -

- (a) Nimbostratus clouds
- (b) Altocumulus clouds
- (c) Stratus clouds
- (d) Cumulonimbus

95. Which one of the following is the correct sequence in terms of descending values of Albedo?

- (a) Forest, snow, water
- (b) Snow, forest, water
- (c) Water, snow, forest
- (d) Forest, water, snow

96. Fohn and Chinook winds are experienced in:

- (a) the valleys of the northern Alps in Switzerland and on the eastern slopes on Rockies in North America.
- (b) the eastern slopes of southern Alps in Switzerland and on the western slopes on Andes in South America.
- (c) Po valley of France and in Newfoundland
- (d) Netherlands and New Zealand.

DIRECTION

97. Relative humidity refers to:

- (a) absolute amount of water vapour in the atmosphere.
- (b) the amount of hygroscopic nuclei in the atmosphere.
- (c) saturated vapour pressure.
- (d) ratio of actual amount of water vapour in the air to the amount it could hold at the temperature.

98. Consider the following statements:

- 1. The Benguela current had its influence in the formation of Kalahari Desert.
- 2. The Agulhas current had its influence in the formation of Thar Desert.
- 3. The currents of Northern Indian Ocean change their course of flow twice a year.

Which of the statements given above is/are correct?

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

99. The coastline formed by the submergence of mountain ridges running parallel to the coast is known as:

- (a) Dalmatian coast
- (b) Ria coast
- (c) Fiord coast
- (d) Haff coast

100. Consider the following statements:

Salinity of water in the equatorial oceans decrease because:

- 1. large rivers like Amazon and Congo enter into the sea.
- 2. evaporation is less.
- 3. waters from Arctic and Antarctic mix with the waters of Equator.
- 4. of heavy rainfall.

Which of the above statements are correct?

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

Answer Sheet**PHYSICAL GEOGRAPHY**

- | | | | |
|---------|---------|---------|----------|
| 1. (c) | 26. (b) | 51. (a) | 76. (c) |
| 2. (c) | 27. (b) | 52. (b) | 77. (b) |
| 3. (b) | 28. (c) | 53. (b) | 78. (c) |
| 4. (c) | 29. (c) | 54. (b) | 79. (b) |
| 5. (b) | 30. (b) | 55. (c) | 80. (b) |
| 6. (c) | 31. (d) | 56. (b) | 81. (d) |
| 7. (d) | 32. (b) | 57. (b) | 82. (d) |
| 8. (d) | 33. (a) | 58. (d) | 83. (b) |
| 9. (c) | 34. (b) | 59. (b) | 84. (b) |
| 10. (b) | 35. (a) | 60. (c) | 85. (c) |
| 11. (c) | 36. (b) | 61. (c) | 86. (b) |
| 12. (c) | 37. (c) | 62. (c) | 87. (b) |
| 13. (c) | 38. (a) | 63. (b) | 88. (c) |
| 14. (a) | 39. (d) | 64. (c) | 89. (d) |
| 15. (d) | 40. (a) | 65. (b) | 90. (c) |
| 16. (b) | 41. (c) | 66. (c) | 91. (c) |
| 17. (d) | 42. (c) | 67. (c) | 92. (b) |
| 18. (d) | 43. (b) | 68. (b) | 93. (d) |
| 19. (d) | 44. (c) | 69. (c) | 94. (d) |
| 20. (c) | 45. (a) | 70. (c) | 95. (c) |
| 21. (c) | 46. (c) | 71. (c) | 96. (a) |
| 22. a) | 47. (a) | 72. (c) | 97. (d) |
| 23. (d) | 48. (d) | 73. (c) | 98. (c) |
| 24. (c) | 49. (a) | 74. (a) | 99. (a) |
| 25. (d) | 50. (b) | 75. (b) | 100. (d) |