

Test Series Programme 2019

Practice Test

Test Booklet Series

Serial No.

TEST BOOKLET

TEST - 1

Physical Geography



Time Allowed : 2 hours

Maximum Marks : 200

INSTRUCTIONS

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- 4 This Test Booklet contains **100 items** (questions). Each item is printed in English. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE response for each item**. All items carry equal marks.
- 5 You have to mark all your responses **ONLY** on the separate Answer Sheet provided.
- 6 Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate .
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 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
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DIRECTION

1. With reference to earthquakes, which of the following statements are correct?

1. Earthquakes largely occur along the converging plate boundaries.
2. Point of origin of earthquake in lithosphere is known as focus/hypocentre.
3. Intensity of earthquake decreases with distance from the epicentre.
4. Epicentre of earthquake always remains over continents only.

Select the correct answer using the code given below:

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

2. Which of the following statements concerning atmosphere of the Earth are correct?

1. In stratosphere, temperature increases with altitude.
2. In mesosphere, temperature decreases with altitude.
3. The lowest temperature of the atmosphere is recorded in the upper part of the mesosphere.
4. Tropopause is an isothermal zone.

Select the correct answer using the code given below:

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

3. Match List-I with List-II and select the correct answer using the code given below the Lists:

List-I

(Strait)

- A. Strait of Hormuz
- B. Strait of Bab-el-Mandeb
- C. Strait of Malacca
- D. Strait of Sunda

List-II

(Water Body)

1. Java Sea
2. Andaman Sea
3. Red Sea
4. Gulf of Persia

Code:

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

4. Global Dimming' means –

- (a) gradual increase of the temperature and ionosphere
- (b) gradual loss of biodiversity hot spots
- (c) gradual reduction in the amount of global direct irradiance at the earth surface
- (d) gradual increase in the melting of ice in polar regions

5. Consider the following

1. Size of particles down streams tends to decrease
2. Composition of particles in the bed load tends to remain same in long profile
3. Gradient decrease is simultaneous to the increase in discharge
4. Active channels are mostly demarcated by the prevalence of Natural levees

Which of the statements given above is/are correct?

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

6. Which one among the following is responsible for the expansion of water in the ocean?
- (a) Carbon dioxide
 (b) Nitrogen dioxide
 (c) Carbon monoxide
 (d) Sulphur dioxide
7. Stalactites and stalagmites are features of –
- (a) glacial topography
 (b) volcanic topography
 (c) karst topography
 (d) fluvial topography
8. Which of the following statements is/are correct?
1. The earth is nearest to the Sun at Perihelion, which generally occurs on January 3.
 2. The earth is farthest away from the Sun at Perihelion, which generally occurs on July 4.
 3. The earth is farthest away from the Sun at Aphelion, which generally occurs on July 4.
 4. The earth is nearest to the Sun at aphelion, which generally occurs on January 3.
- Select the correct answer using the code given below:**
- (a) 1 only
 (b) 2 and 4
 (c) 2 and 3
 (d) 1 and 3
9. Which one of the following is the reason due to which the wind in the southern hemisphere is deflected towards its left?
- (a) Difference in the water masses of northern and southern hemisphere?

- (d) Temperature and pressure variations
 (c) Inclined axis of the Earth
 (d) Rotation of the Earth

10. Match List-I with List-II and select the correct answer using the code given below the Lists:

List I <i>(Climate)</i>	List-II <i>(Characteristic)</i>
A. Mediterranean	1. Temperature cycle is moderated by marine influence
B. Marine west coast	2. Warm summers and cold winters with three months below freezing. Very large annual temperature range
C. Dry mid-latitude	3. Strong temperature cycle with large annual range. Warm summers to hot and cold winters to very cold
D. Moist continental	4. Temperature range is moderate with warm to hot summers and mild winters

Code:

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

11. Red soil colour is caused by –
- (a) Aluminium compounds
 (b) Mercury compounds
 (c) Iron compounds
 (d) Clay.

DIRECTION

- 12.** The 'eye' of the cyclone has –
- (a) abnormally high temperature and lowest pressure
 - (b) abnormally low temperature and pressure
 - (c) clear sky and lowest temperature
 - (d) dense cloud cover and low pressure
- 13.** Mid-latitude cyclones –
- (a) usually move across North-America from east to west.
 - (b) are generally found only over the Ocean.
 - (c) generally bring clear skies and little precipitation.
 - (d) are formed in regions of strong temperature contrasts.
- 14.** Match List-I with List-II and select the correct answer using the code given below the Lists:

List I	List-II
<i>(Weathering type)</i>	<i>(Landform/Process)</i>
A. Chemical weathering	1. Till
B. Mechanical weathering	2. Oxidation
C. Glacial deposits	3. Plant roots
D. Deposition by groundwater	4. Stalactite

Code:

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

- 15.** The Westerlies have their origin in the –
- (a) Polar highs
 - (b) Sub-tropical highs
 - (c) Equatorial lows

- (d) Sub-polar lows.
- 16.** Which one of the following regions of India is now regarded as an 'ecological hot spot'?
- (a) Western Himalayas
 - (b) Eastern Himalayas
 - (c) Western Ghats
 - (d) Eastern Ghats
- 17.** Which of the following statements regarding the duration of day and night is correct?
- (a) Difference is least near the Equator and progressively increases away from it.
 - (b) Difference is maximum at the Equator and progressively decreases away from it.
 - (c) Difference is least at the Tropics and progressively increases towards the Equator and Poles.
 - (d) Difference is maximum at the Tropics and progressively decreases towards the Equator and Poles.
- 18.** Which one of the following statements is correct?
- (a) Cold fronts move at slower rate than warm fronts and therefore cannot overtake the warm fronts.
 - (b) Cold fronts normally move faster than warm fronts and therefore frequently overtake the warm fronts.
 - (c) Cold fronts move at slower rate, and eventually they are overtaken by the warm fronts.
 - (d) Cold fronts move faster than warm fronts but they cannot overtake the warm fronts.

19. Which of the following gases in the atmosphere is/are responsible for acid rains?

1. Oxides of sulphur
2. Oxides of nitrogen
3. Oxides of carbon

Select the correct answer using the code given below:

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

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

21. Consider a specific Point on the surface of the earth . The temperature at a given time of day (12.00 Noon) will in general be higher in summer than in winter. This is because:

- (a) the evaporation of water from atmosphere results in precipitation Occurring in winter alone
- (b) Sun-rays falling on the earth are inclined more towards the sun in summers
- (c) the earth is closer to the sun in summer than in winter

(d) the axis of the earth is inclined more towards the sun in summers.

22. Which one of the following would have occurred if the earth had not been inclined on its own axis.

- (a) All the seasons would have been of same duration
- (b) The seasons would not have changed
- (c) The summers would have been of longer duration
- (d) The winters would have been of longer duration

23. Rainless quarter of the world belongs to which climatic category

- (a) BSh
- (b) BSk
- (c) BWh
- (d) BWk

24. Consider the following statements:

1. Over eastern Asia, there is a strongly developed anticyclone – Siberian high – during winter months.
2. Over Asia low pressure system during summers is separated by Himalayas.

Which of the following is/are Correct?

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

25. Consider the following statements

1. The pressure at any given altitude in the atmosphere is equal to the weight of the air directly above that point
2. Glaze is a deposit of ice crystal formed by the freezing of super cooled fog or cloud droplets on objects

Which of the following is/are Correct?

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

26 . Consider the following statements

1. The annual range of temperature is lower in low latitudes and higher in high latitudes
2. Within tropics the continental interiors have large annual range of temperature

Which of the following is/are Correct?

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

27. The climate of east coast regions can be best expressed with;

- (a) Rainfall Concentrated during summers
- (b) Rainfall concentration decreases during summer from low latitude to high latitude
- (c) Rainfall concentration increases during summer to wards high latitudes
- (d) The frontal rains are experienced during winter in the tropical monsoonal belt

28. Along which one of the following parallels would the specific humidity be found to be the maximum?

- (a) 15°
- (b) 30°
- (c) 45°
- (d) 60°

29. Which of the following statements concerning temperature is/are correct?

1. In winter season isotherms in Northern Hemisphere are more or less circular on continents.

2. Isotherms are parallel to latitude in Southern Hemisphere in oceans.
3. Minimum temperature during winter is recorded in Northern Canada.

Select the correct answer using the code given below:

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

30. The atmosphere is like a green house because

- (a) It is transparent to solar radiation and absorbs much terrestrial radiation
- (b) It is transparent to solar radiation as well as to terrestrial radiation.
- (c) It absorbs some solar radiation and is transparent to terrestrial radiation.
- (d) It absorbs some solar radiation as well as terrestrial radiation.

31. Consider the following statements:

1. In the upper part of the troposphere, long meandering waves called Rossby waves develops.
2. When the Westerlies are blowing primarily west to east, it is called zonal flow.

Which of the following is/are Correct

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

32. Cloudy nights are warmer compared to clear cloudless nights, because clouds

- (a) prevent cold waves from the sky from descending on earth
- (b) reflect back the heat given off by earth
- (c) produce heat and radiate it towards earth
- (d) absorb heat from the atmosphere and send it towards earth.

DIRECTION

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

List - I

List - II

- | | |
|------------------|---|
| A. Evaporation | 1. Release of moisture |
| B. Condensation | 2. Cold air moves into warm air |
| C. Precipitation | 3. Transformation of watervapour into water |
| D. Insolation | 4. Gain of heat |
| | 5. Incoming solar radiation |

Codes:

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

34. Which of the following does not contribute to the inversion of temperature?

- (a) Long winter nights
- (b) Snow covered surface
- (c) Calm air
- (d) Overcast sky

35. Consider the following statements:

- 1. Primary coasts represents configuration developed due to terrestrial processes.
- 2. Secondary coasts represents configuration developed due to marine processes.

Which of the following is/are Correct?

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

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

- 1. Air close to the Earth's surface is heavier.

2. Air close to the Earth's surface contains larger quantity of water vapour and dust particles.

Select the correct answer using the code given below:

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

37. The variation in the average temperature of a place and the latitudinal average is called ?

- (a) Temperature Inversion
- (b) Temperature Anomaly
- (c) Latitudinal Anomaly
- (d) Normal Lapse rate

38. Consider the following statements :

- 1. Foehn is a very cold and dry wind with a high velocity and brings down the temperature below freezing point.
- 2. Mistral is a strong, gusty, dry and warm wind which develops on the leeward side of a mountain range.

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

39. It is known that the atmosphere is divided into some layers. In which one among the following layers, is the percentage composition of Helium gas maximum?

- (a) Troposphere
- (b) Stratosphere
- (c) Exosphere
- (d) Ionosphere

40. Consider the following pairs :

A Exotic - Species that is native to a location

B Ubiquitous - Species that are found every where

C Endemic - Species that are new to a location

Which of the statements given above is/are correct?

- (a) Only A (b) Only B
(c) Only C (d) A and B

41. Match the List with List II and select the correct answer using the codes given below the Lists :

List I	List II
A) Seral	1. The ecological Capacity
B) Productivity	2. Physical conditions of ecosystem
C) Habitat	3. Energy accumulated the biotic component
D) Feeding	4. The temporal modifications of ecosystem

Code

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

42. The warm sector is confined ;

- (a) to warm front

- (b) to cold front

- (c) between warm and cold front

- (d) to occluded front

43. Consider the following factors:

1. Convergence of cool and warm ocean currents.
2. Shallow depth of ocean waters.
3. Nearness of fishing port
4. Abundance of drifting planktons.

Those responsible for great fishing ground are

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

44. Drainage pattern in which drainage lines converge in a central depression.

- (a) Centripetal
(b) Centrifugal
(c) Parallel
(d) Annular

45. "Eco-tone" is best described as which among the following.

- (a) Dense forest ecosystem
(b) Uniform and simple ecosystem of grassland
(c) Transitional region between ecosystems
(d) Mixed ecosystem of savannah

46. Which among the following phenomena can occur when very warm and humid air is rising over a mass of a very cold air?

1. Calm weather
2. Snowfall
3. Storms and cyclonic storms
4. Intense rain and hail

Select the correct answer using the codes given below: Codes:

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

47. Which one among the following statements, regarding Chinook winds is *not* correct?

- (a) These are local winds.
- (b) They descend along the eastern slopes of the Rocky Mountain in mid-latitudes.
- (c) They bring lots of rain with them.
- (d) They benefit agriculture.

48. Match the List – I and List – II. Identify the correct answer from the codes given below

List – I	List – II
<i>(Ecolabels)</i>	<i>(Country)</i>
A. Green Seal	1. India
B. Blue Angel	2. USA
C. Eco-mark	3. Belgium
D. Eco Garantie	4. Germany

Codes :

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

49. The correct order of decreasing Net primary productivity is :

- (a) Moist Subtropical ,Moist Continental ,Boreal , Dry Tropical
- (b) Moist Continental , Moist Subtropical, Boreal ,Dry Tropical
- (c) Dry Tropical , Boreal ,Moist Continental, Moist Subtropical
- (d) Boreal ,Dry Tropical ,Moist Continental, Moist Subtropical

50. Eutrophication in inland wetlands such as lakes is caused by

- (a) enrichment of water by chlorides
- (b) enrichment of water by phosphates
- (c) addition of detritus
- (d) silt from the catchment

51. The movement of Inter tropical convergence largely governs the rainfall pattern in :

- (a) Equatorial Climate
- (b) Mediterranean Climate
- (c) Monsoon Climate
- (d) West Europe Maritime Climate

52. Which of the following pairs is correct?

- (a) *Lappolith* - develops into concave to the sky body
- (b) *Batholith* - develops as near horizontal bodies magma
- (c) *Phacolith* - develops as largest magma mass
- (d) *Laccolith* - develops as wavy material deposits

53. Meandering courses over flood plains and delta plains where stream gradients are very gentle are common. The deep and wide meanders in hard rocks are ;

- (a) paired terraces
- (b) intense meanders
- (c) wide meanders
- (d) entrenched meanders

54. Any particular matter, gas, or combination there of other than water vapour is called:

- (a) Air curtain
- (b) Air emission
- (c) Air monitoring
- (d) Air contaminant

55. Which of the following is a prime health risks associated with greater UV radiation through the atmosphere due to depletion of stratospheric ozone?

- (a) Damage to digestive system
- (b) Increased liver cancer
- (c) Neurological disorder
- (d) Increased skin cancer

56. The Coniferous forests have been exploited to a considerable extent because of the

- (a) Presence of extensive pure stands of one or two species of timber trees
- (b) Presence of a vast network of perennial streams
- (c) Existence of large markets in close proximity
- (d) Availability of cheap labour

57. Match List I with List II and select the correct answer by using the codes given below the Lists ;

List I	List II
(Type of Vegetation)	(Area)
A. Tropical Evergreen	1. South Brazil
B. Tropical Monsoon	2. Myanmar
C. Temperate Evergreen	3. North Mexico
D. Mediterranean	4. Indonesia
	5. South-West Australia

Code:

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

58. Consider the following statements :

- (1) Epiphytes are numerous in equatorial region
- (2) These are attached to the trunk of the tree using it for physical support
- (3) They are also stranglers and can replace the original tree
- (4) Lianas ,Ferns are the examples of stranglers

Correct ones are

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

59. Which of the following statement about Tundra is correct ;

1. It lies between the permafrost region
2. It experiences a short summer
3. Its surface is stony and marshy
4. The Soils are badly drained

Correct ones are

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

60. Which of the following statements regarding Temperate Grasslands is correct.

1. In the drier regions, the grasses are shorter and coarse
2. Temperate Grasslands are almost treeless.
3. Along the Moist margins, chapparals are found.

Correct ones are

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

61. What is the primary reason for targeting 'biodiversity hotspots' for conservation?

- (a) They are the only areas where species are seriously threatened in the world.
 (b) The number of species threatened for exceeds our capacity to protect them and we can therefore only concentrate on areas of highest species diversity.
 (c) They are areas where people do not live and conservation would therefore not be

effecting the economic development of the area.

- (d) They are areas where people live and conservation would therefore be effecting the economic development of the area.

62. What natural vegetation can be expected in subhumid middle latitude where evapotranspiration almost balances precipitation?

- (a) Conifers
 (b) Prairies
 (c) Savanna
 (d) Selvas

63. The greatest number and widest variety of plants and animals would be found in :

- (a) Tropical grasslands
 (b) Tropical forests
 (c) Temperate forests
 (d) Temperate grassland

64. Consider the following ecosystems:

1. Taiga 2. Tropical evergreen
 3. Tropical deciduous 4. Tundra

The correct sequence in decreasing order of the albedo values of these ecosystems is

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

DIRECTION

65. The tropical rain forests are dense and varied because of ;

- (a) their remote and inaccessible locations
- (b) very little interference from man
- (c) an abundance of moisture and warm temperature throughout the year
- (d) poor economic development

66. Mild and rainy winters, warm and dry summers are the characteristic features of ;

- (a) Monsoon Region
- (b) Mediterranean Region
- (b) Tropical Grasslands
- (d) Temperate Grasslands

67. Sun's halo is produced by the refraction of light in

- (a) Water vapour in Stratus clouds
- (b) Ice crystals in Cirro-Cumulus clouds
- (c) Ice crystals in Cirrus clouds
- (d) Dust particles in Stratus clouds

68. Which one of the following statements is correct ?

- (a) While most soft woods are deciduous, most hardwoods are evergreen.
- (b) The trees of equatorial evergreen forests are mostly of softwood type.
- (c) While most softwoods occur in the tropical areas, the hardwoods are characteristically of temperate region.

(d) While most hardwoods are deciduous and softwood are usually coniferous in characteristics.

69. Which one among the following covers the highest percentage of forest area in the world?

- (a) Temperate Coniferous forest
- (b) Temperate Deciduous forests
- (c) Tropical Monsoon forests
- (d) Tropical Rain forests

70. 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	1. Forced lifting cloud 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

Codes:

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

71. Weathering by chemical or physical mechanism increases the concentration of remaining valuable material without weathering concentration would not be sufficient and economically viable to exploit process and refine. This is called.

- (a) Flaking
- (b) Expoliation
- (c) Enrichment
- (d) Foliation

72. Which one of the following statements not true of coniferous forests?

- (a) Spruce is the important tree of this forest which is used in preparing pulp and artificial silk
- (b) They are soft wood trees with short and pointed leaves
- (c) Such forest are also called 'boreal'
- (d) Tree trunks of this region are quite thick and are covered with thick barks so as to protect them from the dryness of the summer season

73. Consider the following statements ;

1. Commensalism and mutualism are the types of competition.
2. Parasitism is a type of symbiosis

Correct ones are :

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

74. Consider the following statements. Which of these out line the basic difference between Zeugen and Yardang

- (a) Zeugens are formed over horizontal strata whereas Yardangs are formed over vertical strata
- (b) Zeugens are formed in arid regions whereas Yardangs are formed in semi arid region
- (c) Zeugens are related to frost weathering whereas Yardangs are related to frost heaving
- (d) Zeugens are related to physical weathering whereas Yardangs are related to chemical weathering

75. The natural region produced by the creation of climatic homogeneity by the sea is :

- (a) Humid subtropics
- (b) Marine west coast
- (c) Monsoon tropics
- (d) Short summer humid continental.

76. Consider the following statements:

Low soil fertility in Rainy Tropics can be caused by

1. high temperature and heavy rainfall
2. eluviation and leaching
3. the existence of an extremely active bacterial life on the forest floor.

Correct of these statements

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

77. Laterite soil are formed due to ;

- (a) Removal of silicates, lime and organic matter
- (b) Decayed organic matter
- (c) Disintegration of volcanic matter
- (d) Deposition of limestone.

78. Terrestrial Ecosystem has the similarity of :

- (a) Climate and natural vegetation
- (b) Climate and animal life
- (c) Soil and drainage
- (d) Soil, Climate and animals life

79. The basic element of an ecosystem is:

- (a) Biomass (b) Biodiversity
- (c) Energy Flow (d) Vegetation Density

80. Which one of the following is not correctly matched.

- (a) Pampas - Paraguay
- (b) Prairies - Canada
- (c) Steppes - Poland
- (d) Downs - South Africa

81. Consider the following correct ones for Thunderstorms are ;

1. The updrafts dominates throughout the cloud during cumulus stage
2. Mature stage is characterized by violent weather with updraft sustaining side by side to down draft
3. Influx of cool, dry air surrounding the cloud is typical to dissipating stage

4. Downdraft causes heavy rains during dissipation stage

Which of the following is/are Correct?

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

82. The ideal conditions for the formation of dew are;

- (a) Cloudy sky, no wind, high relative humidity and cold short nights
- (b) Cloudy sky, little wind, low humidity and warm short nights
- (c) Clear sky, violently blowing wind, low humidity and cold long nights
- (d) Clear sky, little or no wind, high relative humidity and cold long nights

83 Grasses are almost absent in :

- (a) tropical moist deciduous forest
- (b) tropical dry evergreen forest
- (c) tropical semi-evergreen forest
- (d) tropical wet-evergreen forest

84. Which one of the following characteristics is not found in the Mediterranean climate?

- (a) Temperature range from 21°C in summer to 10°C or below in the winter.
- (b) Offshore trade winds blow in the summer.
- (c) Onshore westerly winds blow in the winter bringing cyclonic rain.
- (d) The annual rainfall ranges from 150 to 200cm.

DIRECTION

85. Consider the following statements the incorrect statement is ;

- (a) Tundra Vegetation is identified between 70° - 80° latitude
- (b) Laurel are the wetter expression of tropical hardwood deciduous vegetation
- (c) Equatorial rain forest avails densest stand
- (d) The tropical forest biomes covers the largest areal expanse

86. Match the lists-I with List-II and select the correct answer using the code given below the Lists :

List I	List II
A. Catinga	1. Algeria
B. Downs	2. Australia
C. Maquirs	3. East Brazil
D. Veld	4. South Africa

Code:

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

87. Consider the following statements :

1. The organisation and pattern of feeding in an ecosystem is known as trophic structure
2. The feeding decreases with increase in trophic level
3. The largest biomass is identified with primary produces

Which of the statements given above is/are correct

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

88. Consider the following statements :

- A. Shrubs are dominant growth of deserts
- B. They are both evergreen as well as deciduous
- C. Succulents store water during rain to use it dry season
- D. Phreatophytes are plants with deep roots

Correct ones are

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

89. List I with List II and select the correct answer by using the codes given below the Lists :

List - I	List - II
A. Estuarine Delta	1. Ebro
B. Digitate Delta	2. Rhine
C. Cuspate Delta	3. Nile
D. Arcuate Delta	4. Mississippi

codes:

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

90 Consider the following statements :

1. Rule of climate similarity leads to concept of biomes
2. Divergent evolution related to evolution of population separated by geographical barriers

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

91. Consider the following statements :

1. Islands have fewer species than continents
2. Size of island forms the determiners of species diversities
3. The distance of island from mainland determines the number of species

Which of the statements given above is/are correct?

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

92. Consider the following statements :

1. during winter low light levels cause critical depth to be relatively deeper
2. during spring and summers pycnocline levels becomes shallow favouring concentration of plankton in photic levels

Which of the statements given above is/are correct?

- (a) Only 1 (b) Both 1 and 2

- (c) Only 2 (d) Neither 1 nor 2

93. Consider the following statements :

- A. Competition
- B. Symbiosis
- C. Predation -Parasitism

The categories interaction that affects evolution and diversity of life includes:

- (a) Only A (b) A and B
 (c) A, B, C (d) Only C

94. Consider the following statements :

1. Though most of production is related to photic levels respiration is nearly independent of depth
2. Deeper aphotic zone includes meso and bathy pelagic blocks

Which of the statements given above is/are correct in regards to aquatic biomes

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

95. Consider the following statements:

1. Temperature of surface water is comparatively higher in the northern hemisphere than in the southern hemisphere.
2. The isotherms in the southern hemisphere are not regular and do not follow the latitudes while they (isotherms) are regular and follow the latitudes in the northern hemisphere.

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

96. Condensation is a process which occurs when

- (a) Temperature falls below 0° C.
- (b) Absolute humidity becomes equal to relative humidity
- (c) Temperature in the air parcel remains static.
- (d) Relative humidity becomes 100% and more

97. The exceptional shift of ITCZ to north with the apparent movement of Sun was explained by ;

- (a) Flohn (b) Rossby
- (c) Hadley (d) Flint

98. Which of the following is the correct expression for polar outbreaks in tropical zones tropical zones ;

- (1) Easterly Waves (2) Norters
- (3) Pamperos (4) Tropical Easterlies

Codes :

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

99. Which of the following are true with regard to temperature control of the atmosphere of a given place ?

- 1. The major temperature contrasts on earth's surface are between land masses and oceans

- 2. During night, the water surface cools more rapidly than the land surface
- 3. Temperature generally decreases with latitude on either side of the equator
- 4. Temperature rises to a maximum during summer and falls to a minimum during winter

Codes :

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

100. Beni off zone is best expressed as

- (a) the region of tectonic activity
- (b) the region of plate divergence
- (c) the region of plate convergence
- (d) the region of subduction

DIRECTION

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