

11th Geography Lesson 6 Questions in English
6] Atmosphere

1. Consider the following statements find the correct answer

- a) It is not constant.
- b) It is always changing within hours or a day
- A) Climate
- B) Weather
- C) Rainfall
- D) Drought

2. Find out the correct statement

- A) Climate is the average weather conditions of an area for a long period of time
- B) Climate is constant.
- C) Climate is not permanent condition of a place.
- D) A and B

3. WMO stands for

- A) Weather Monitoring Organization
- B) World Meteorological Organ
- C) World Meteors Organization
- D) World Meteorological Organization

4. WMO has suggested data for a period of ____years for calculating the climatic averages of various weather elements

- A) 30
- B) 20
- C) 50
- D) 40

5. Find out the incorrect statement

1. The ancient Latins called the tilt of latitude as klima

2. Meaning of klima is 'slope' or 'inclination

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

6. Find out the correct statement about climate

1. Then the earth was divided into six latitudinal regions, called 'klimata'.

2. The word came into modern American languages as clime or 'climate'

3. It denotes the average weather condition.

- A) 1 only
- B) 3 only
- C) All the above
- D) None of the above

7. Find out the correct statement about atmosphere

1. The atmosphere is essential for the survival of all the organisms on the earth.

2. The atmosphere is a blanket of gases and suspended particles that entirely envelope the earth.

3. It extends outward over thousands of kilometers from the earth's surface

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

8. Find out the major components of atmosphere.

- 1. Nitrogen (75%)
- 2. Oxygen (25%)
- 3. Other gases (1%)

- A) 1 only
- B) 2 only
- C) 3 only
- D) 1, 2, 3

9. Find out the correct statement

1. The atmosphere is divided into five distinct layers

2. The atmosphere is divided based on the pressure variations.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

10. Which is the lower most layer of the atmosphere?
 A) Troposphere
 B) Stratosphere
 C) Mesosphere
 D) Ionosphere
11. Find out the correct statement
 1. Troposphere extends approximately to a height of 18 km from the poles
 2. Troposphere extends to a height 8 km from the equator.
 A) 1 only
 B) 2 only
 C) Both 1 & 2
 D) Neither 1 nor 2
12. Find out the correct statement
 A) The height of the troposphere changes seasonally also.
 B) Height increases during winter
 C) Height decreases during summer.
 D) B and C
13. Consider the following statements:
 Assertion (A): All weather phenomena occur in troposphere
 Reason (R): It has dust particles and water vapor
 Codes:
 A) Both (A) and (R) are true and (R) is the correct explanation of (A)
 B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
 C) (A) is true but (R) is false
 D) (A) is false but (R) is true
14. ____ Layer has clouds which produce precipitation on the earth?
 A) Troposphere
 B) Stratosphere
 C) Mesosphere
 D) Ionosphere
15. Find out the correct statement
 1. The Sun's rays directly fall on the earth and then they are reflected back into the atmosphere.
 2. The temperature decreases in the troposphere with decrease in altitude
 3. The temperature decreases at the rate of 1 degree C for 165 meter.
 A) 1, 3
 B) 2, 3
 C) 1, 2
 D) 1, 2, 3
16. Find out the incorrect statement
 1. Troposphere is the densest layer as it contains 70 to 90 percent of gases.
 2. The inner boundary of the troposphere is called tropopause
 3. Tropopause is about 3.5 kilometer thick.
 A) 1, 2
 B) 2, 3
 C) All the above
 D) None of the above
17. Stratosphere is approximately extends up to a height of ____ km from the earth's surface.
 A) 50
 B) 30
 C) 40
 D) 60
18. Find out the correct statement.
 1. Temperature is constant up to a height of 10 km in stratosphere
 2. Temperature increases gradually up to the Stratopause where temperature is nearly -7 degree C.
 A) 1 only
 B) 2 only
 C) Both 1 & 2
 D) Neither 1 nor 2
19. Ozonosphere is located in____.
 A) Troposphere
 B) Stratosphere
 C) Mesosphere
 D) Ionosphere

20. Find out the correct statement

- A) Ozonosphere prevents the ultra-violet rays from the Sun to enter into the lower part of the atmosphere
- B) The UV rays are less harmful
- C) UV rays causes skin cancer
- D) A and C

21. Find out the incorrect statement

- 1. The mesosphere is the third layer of the atmosphere
 - 2. Mesosphere extends approximately up to a height of 65 km above the surface of the earth
- A) 1 only
 - B) 2 only
 - C) Both 1 & 2
 - D) Neither 1 nor 2

22. Which is the coldest layer of atmosphere?

- A) Troposphere
- B) Stratosphere
- C) Mesosphere
- D) Ionosphere

23. Consider the following statements:

Assertion (A): The temperature decreases with increase of altitude in mesosphere.

Reason (R): Due to the presence of ozone.

Codes

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- C) (A) is true but (R) is false
- D) (A) is false but (R) is true

24. Find out the correct statement

- 1. Upper boundary of mesosphere is called mesopause
 - 2. In mesopause temperature reaches -70 degree C.
 - 3. Mesosphere is the coldest layer
- A) 1, 3
 - B) 2, 3
 - C) 1, 2
 - D) 1, 2, 3

25. Consider the following statements:

Assertion (A): Luminous noctilucent clouds form in mesopause

Reason (R): Mesosphere is the third layer of the atmosphere

Codes:

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- C) (A) is true but (R) is false
- D) (A) is false but (R) is true

26. Find out the correct statement about mesosphere

- 1. Meteorites falling from the space get burned in mesosphere.
- 2. It is because when meteorites hit the air, the air gets compressed and heated up causing meteorites to burn out.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

27. The fourth layer of atmosphere also called as

- A) Thermosphere
- B) Photosphere
- C) Exosphere
- D) None of the above

28. The temperature increases rapidly up to ____degree C in thermosphere.

- A) 750
- B) 1000
- C) 1200
- D) 1500

29. Find out the correct statement

- 1. When light energy is transformed into heat energy, some gas molecules lose or gain electrons and become the charged particles called ions.

2. The charged particles forming the upper part of the thermosphere as a zone, is called Ionosphere
- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2
30. Auroras created in which layer?
- A) Troposphere
B) Stratosphere
C) Mesosphere
D) Ionosphere
31. Find out the incorrect statement
1. Ionosphere can reflect radio waves back to the earth.
2. This reflection facilitates short distance wireless satellite communication.
- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2
32. The credit of discovering ionosphere goes to?
- A) Hennelly and Hubble
B) Hubble and Heaviside
C) Hennelly, Heaviside, Hubble
D) Hennelly and Heaviside
33. The upper most layer of the atmosphere extends into the outer space from
- A) 500 km to 1600 km
B) 400 km to 1200 km
C) 400 km to 1600 km
D) 500 km to 1200 km
34. Exosphere mainly consists of ____.
1. Hydrogen
2. Helium
3. Oxygen
4. Nitrogen
- A) 1, 2
B) 2, 3
C) 3, 4
D) 1, 3
35. The temperature increases with increase of altitude and it ranges as high as
- A) 160 degree C
B) 175 degree C
C) 165 degree C
D) 175 degree C
36. Find out the correct statement about upper layer of the atmosphere
1. The gravitational pull is maximum in this layer.
2. This layer gradually merges with the space.
3. It has rarefied contents
- A) 1, 2
B) 2, 3
C) 3, 1
D) 1, 2, 3
37. Find out the incorrect statement about ozone
- A) Ozone is form of oxygen that combines three atoms into each molecule.
B) Ozone is not harmful when it develops near the ground
C) This way the ozone layer protects all life on earth
D) A and C
38. It absorbs and filters the harmful ultraviolet ____ radiation coming from the sun.
- A) A
B) B
C) C
D) D
39. Which of the following causes ozone depletion?
1. CFCs
2. Halons
3. Carbon tetra chloride
4. HCFCs
- A) 1, 3, 4
B) 1, 2, 4
C) 1, 2, 3
D) 1, 2, 3, 4

40. Which of the following is released by supersonic aircrafts?
- A) Nitrogen di Oxide
 - B) Nitrogen Oxide
 - C) Carbon Monoxide
 - D) Carbon di Oxide
41. Consider the following statements:
Assertion (A): The severe depletion of the Arctic ozone layer known as the "ozone hole".
Reason (R): It occurs because of the special atmospheric and chemical conditions that exist there and nowhere else on the Globe.
- Codes
- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
 - B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
 - C) (A) is true but (R) is false
 - D) (A) is false but (R) is true
42. PSC stands for
- A) Polar Stratospheric Clouds
 - B) Photo Stratospheric Clouds
 - C) Polar Stimulation Clouds
 - D) Polar Stratospheric Commission
43. Which of the followings are allowed to produce ozone hole in Antarctic?
- A) Bromine and hydrogen
 - B) Hydrogen and helium
 - C) Helium and chlorine
 - D) Chlorine and bromine
44. Ozone hole is produced in Antarctic in which of the following season?
- A) Summer
 - B) Winter
 - C) Spring
 - D) Autumn
45. Find out the incorrect statement
1. Satellite images of the earth over last decades observed that the atmospheric ozone layer is getting thinner.
 2. On October 2, 2011, the ozone hole was recorded to its maximum size
3. Size of ozone hole is 8.2 million sq.km over Antarctica
- A) 1, 2
 - B) 2, 3
 - C) 3, 1
 - D) None of the above
46. The size of the ozone hole is larger than the size of continent_____?
- A) South America
 - B) Africa
 - C) Asia
 - D) North America
47. Find out the correct statement about ozone hole
1. The ozone holes over Antarctica allow the ultraviolet radiation to enter and cause global warming
 2. It causes skin cancer, eye cataract and even blindness.
 3. Depletion of the ozone layer has consequences on human, animal, plants and microorganisms.
- A) 1, 2
 - B) 2, 3
 - C) 3, 1
 - D) 1, 2, 3
48. Find out the correct statement
1. Ozone hole typically results from higher UV levels reaching us on earth.
 2. Research confirms that high levels of UV rays cause non-melanoma skin cancer.
- A) 1 only
 - B) 2 only
 - C) Both 1 and 2
 - D) Neither 1 nor 2
49. Which of the following is measurement of total ozone?
- A) Parsec
 - B) Hubble space
 - C) Dobson
 - D) None of the above
50. Find out the incorrect statement

1. Air temperature of a particular place denotes the degree of hotness or coldness of air at a given place.
2. It is measured in Celsius.
 - A) 1 only
 - B) 2 only
 - C) Both 1 and 2
 - D) Neither 1 nor 2
51. Sun rays received by the earth's surface is
 - A) Long wave radiation
 - B) Short wave radiation
 - C) Medium wave radiation
 - D) All the above
52. Find out the correct statement
 - A) The heat received by the earth from sun is called 'Solar Radiation'
 - B) It is also called as 'Insolation'.
 - C) Heating of atmosphere is a direct process.
 - D) A and B
53. Find out the incorrect statement
 1. The solar radiation reflected by the earth's surface is called 'Terrestrial radiation
 2. Terrestrial radiation supplies less heat energy to the atmosphere due to its long wave length.
 - A) 1 only
 - B) 2 only
 - C) Both 1 and 2
 - D) Neither 1 nor 2
54. Find out the correct statement
 1. The heat energy from the earth's surface is transferred to the lower atmosphere which is directly in contact with the surface by the process of radiation
 2. The movement of air molecules in vertical direction is called as advection
 3. The movement of air molecules horizontal direction is called as convection
 - A) 1, 2
 - B) 2, 3
 - C) All the above
 - D) None of the above
55. Find out the correct statement
 - A) The heat energy reflected, absorbed and radiated back into the space equals the temperature received by the earth.
 - B) Incoming radiation and the outgoing radiation does not pass through the atmosphere.
 - C) The earth maintains its optimum temperature.
 - D) A and B
56. Find out the correct statement
 1. When 100% solar radiation reaches the earth's atmosphere
 2. 35% is reflected back to space by clouds, water bodies and ice covered areas.
 3. This heat does not heat either the earth or atmosphere.
 - A) 1, 2
 - B) 2, 3
 - C) 3, 1
 - D) 1, 2, 3
57. Find out the correct statement
 1. 51% of solar radiation are absorbed by the earth's surface
 2. 17% of 51% is direct solar radiation
 3. 34% of 51 % is from scattered radiation
 - A) 1 only
 - B) 2 only
 - C) 3 only
 - D) 1, 2, 3
58. Find out the correct statement
 1. 65% heat received from the sun is balanced by the 65% radiated by the earth.
 2. This balance between the incoming and the outgoing heat energy is called the global heat energy balance
 - A) 1 only
 - B) 2 only
 - C) Both 1 and 2
 - D) Neither 1 nor 2
59. The average time taken by the solar radiation to reach the earth's surface is?
 - A) 8 minutes 10 seconds.
 - B) 8 minutes 20 seconds.

- C) 8 minutes 30 seconds.
D) 8 minutes 40 seconds.
60. Distribution of temperature across the latitudes over the surface of the earth is called?
A) Vertical distribution of temperature
B) Horizontal distribution of temperature
C) Spherical distribution of temperature
D) None of the above
61. Horizontal distribution of temperature is commonly shown by?
A) Isohaline
B) Isotherm
C) Isobar
D) Isochoric
62. Which of the following factors affects the horizontal distribution of temperature?
1. Latitude
2. Distribution of land and water
3. Ocean currents
4. Prevailing winds
5. Cloudiness
6. Nature of the surface
7. Mountain barriers
A) 1, 2, 3, 4, 5
B) 2, 4, 5, 6, 7
C) 1, 3, 4, 5, 6, 7
D) 1, 2, 3, 4, 5, 6, 7
63. Find out the correct statement
1. The angle formed by the solar radiation to the ground is called 'angle of radiation'.
2. The solar radiation passes vertically along the poles
A) 1 only
B) 2 only
C) Both 1 and 2
D) Neither 1 nor 2
64. Find out the incorrect statement
1. The angle of incidence increases from equator towards the poles.
2. The area heated by the solar radiation decreases towards the poles and therefore, temperature decreases from the equator to the poles.
A) 1 only
B) 2 only
C) Both 1 and 2
D) Neither 1 nor 2
65. Find out the correct statement
A) Land is heated and cooled at a faster rate due the convection process
B) Water is heated and cooled at slower rate due to conduction process
C) Distribution land and water is one the factor that affects horizontal distribution of temperature
D) A and B
66. Water takes _____ times of heat energy to heat a unit area compared to land
A) 1.5 times
B) 2.5 times
C) 3.5 times
D) 4.5 times
67. Consider the following statements:
Assertion (A): the land will have higher temperature than the water in summer and vice versa during the winter.
Reason (R): Water takes 2.5 times of heat energy to heat a unit area compared to land.
Codes:
A) Both (A) and (R) are true and (R) is the correct explanation of (A)
B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
C) (A) is true but (R) is false
D) (A) is false but (R) is true
68. Average temperature of southern hemisphere
A) 13.8 degree C
B) 11.3 degree C
C) 12.3 degree C
D) 13.3 degree C
69. Find out the correct statement

1. Warm ocean currents carry warm water from the tropical region towards the poles and decrease the temperature along the coast
 2. Cold ocean currents carry cold water from Polar Regions and increase the temperature along the coasts.
- A) 1 only
B) 2 only
C) Both 1 and 2
D) Neither 1 nor 2
70. Which of the following are warm winds?
1. Trade winds
 2. Westerly winds
 3. Polar easterly winds
 4. North easterly winds
- A) 1, 3
B) 2, 3
C) 3, 4
D) 1, 2
71. Find out the incorrect statement
1. Warm winds like trade wind and westerly that carry higher heat energy increase the temperature
 2. Cold polar easterlies carry lower heat energy from polar region increases the temperature.
- A) 1 only
B) 2 only
C) Both 1 and 2
D) Neither 1 nor 2
72. Find out the incorrect statement
1. The clear sky during the night allows more solar radiation to reach the earth's surface and increases the temperature.
 2. Clear sky at day allows more terrestrial radiation to escape
 3. The tropical hot deserts experience higher temperature at day and lower temperature at night.
- A) 2, 3
B) 1, 2
C) All the above
D) None of the above
73. The cloudy sky obstructs the solar radiation from the sun to earth and ____the temperature.
- A) Increases
B) Decreases
C) Moderate
D) No change
74. The reflection from surface varies based on the nature of ____?
- A) Soil
B) Land cover
C) Latitude
D) Pressure
75. Find out the incorrect statement
1. The more reflection from the snow surface leads to low temperature accumulation
 2. The dense forest, which reflects high heat energy and absorbs less heat energy, leads to higher temperature.
- A) 1 only
B) 2 only
C) Both 1 and 2
D) Neither 1 nor 2
76. If a wind or air mass blows towards the mountain, it influences the distribution of ____?
- A) Pressure
B) Soil profile
C) Rainfall
D) Temperature
77. Find out the incorrect statement
1. Polar easterlies and blizzards are obstructed by Himalayas in Asia and
 2. Polar easterlies and blizzards are obstructed by Alps in Africa
- A) 1 only
B) 2 only
C) Both 1 and 2
D) Neither 1 nor 2
78. Find out the correct statement
1. The temperature decreases with increasing altitude from the surface of the earth.

2. The vertical decrease in temperature of troposphere is called as 'Actual Lapse Rate' or 'vertical temperature gradient'
3. In this the temperature reduces at the rate of 6.5 degree C per 1000 meter of ascent
- A) 1, 2
B) 3, 1
C) 1, 3
D) 1, 2, 3
79. Which of the following factors affects the Vertical Distribution of Temperature?
1. Amount of terrestrial radiation reaching the altitude
2. Density of air to absorb the heat energy at higher altitude.
3. Distribution of land and water
- A) 1, 2
B) 2, 3
C) 3, 1
D) 1, 2, 3
80. Find out the incorrect statement
1. The condition at which the temperature decreases with altitude is called as 'inversion of temperature'.
2. In this condition, warm air lie over cold air.
- A) 1 only
B) 2 only
C) Both 1 and 2
D) Neither 1 nor 2
81. The conditions for inversion of temperature are?
1. Long winter nights
2. Cloudy sky
3. Cold air near the surface
4. Snow covered ground
- A) 1, 2
B) 2, 3
C) 1, 4
D) 1, 2, 3, 4
82. Find out the incorrect statement
1. During long winter nights the bottom layer of the atmosphere in contact with the ground is cooled
2. During long winter nights the bottom layer of the atmosphere in contact with the ground is warm
- A) 1 only
B) 2 only
C) Both 1 and 2
D) Neither 1 nor 2
83. During inversion of temperature the dry air absorbs _____ terrestrial radiation?
- A) High
B) Less
C) Medium
D) None of the above
84. Find out the correct statement about inversion of temperature
1. The higher amount of terrestrial radiation reaches the lower altitude
2. It leads to lower temperature at high level due to clear sky.
- A) 1 only
B) 2 only
C) Both 1 and 2
D) Neither 1 nor 2
85. In snow covered region during night time most of the heat is lost to the atmosphere due to
1. Insolation
2. Terrestrial radiation
3. Higher Albedo effect
4. Lower albedo effect
- A) 1, 2, 3
B) 1, 2, 4
C) 2, 3
D) 1, 2, 3, 4
86. Find out the correct statement
1. The movement of warm air over the cold air during the formation of the various fronts leads to inversion condition.

2. The subsidence of cold mountain wind at the early morning leads to the displacement of warm air from the valley to higher altitude, is called as 'mountain inversion'

- A) 1 only
- B) 2 only
- C) Both 1 and 2
- D) Neither 1 nor 2

87. Albedo is

- A) The amount of solar radiation reflected from the surface
- B) The amount of solar radiation absorbed by the surface
- C) The amount of solar radiation
- D) None of the above

88. Match the following

Unit of Temperature Founded Year

- a) Fahrenheit - 1. 1742
- b) Celsius - 2. 1714
- c) Kelvin - 3. 1848

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

89. Match the following

Unit of Temperature Scientist

- a. Fahrenheit - 1. Gabriel
- b. Celsius - 2. Andrew
- c. Kelvin - 3. Lord Kelvin

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

90. Find out the correct statement

- A) The earth has been divided into three heat zones
- B) The heat zones are divided according to the amount of rainfall received.
- C) These are the Torrid Zone, the Temperate zone and the Frigid Zone.
- D) A and C

91. The region between 23 ½ degree N to 23 ½ degree S is

- A) Torrid Zone
- B) Temperate zone
- C) Frigid Zone
- D) None of the above

92. Torrid zone is lying between

- A) Tropic of cancer and equator
- B) Tropic of Capricorn and Arctic Circle
- C) Tropic of cancer and Tropic of Capricorn
- D) Tropic of cancer and Antarctic Circle

93. Find out the correct statement

1. The temperate zone lies between the Tropic of Cancer and Arctic Circle in the southern hemisphere
2. Temperate zone lies Tropic of Capricorn and Antarctic Circle in the northern hemisphere

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

94. Consider the following statements, find the correct answer

1. This region never experiences overhead sun light but experiences longer days and shorter nights during summer and vice versa during winter.
2. This region experiences moderate temperature

- A) Torrid Zone
- B) Temperate zone
- C) Frigid Zone
- D) None of the above

95. Find out the correct statement

1. The region between North Pole and Arctic Circle in the northern hemisphere is polar zone
2. South Pole and Antarctic Circle in the southern hemisphere is called 'Polar Zone'.
3. It is coldest region

- A) 1, 2
- B) 2, 3
- C) 3, 1

D) 1, 2, 3

96. Find out the correct statement about Frigid Zone

1. This region always receives less oblique rays of the sun and so the temperature is very low.
2. It is the coldest zone.
3. This region experiences 24 hours of day and night during peak summer.
4. This region experiences 24 hours of day and night during peak winter.

A) 1, 2, 3

B) 2, 3, 4

C) 1, 2, 4

D) 1, 2, 3, 4

97. Which of the following is correctly matched?

1. Temperate Zone - 23 ½ degree N to 23 ½ degree S
2. Torrid Zone - 23 ½ degree N to 66 ½ degree N
3. Polar Zone - 66 ½ degree S to 90 degree S

A) 1, 2

B) 2 only

C) 3 only

D) 1, 2, 3

98. Find out the incorrect statement

1. Annual Temperature is the average annual temperature of a region for a year.
2. Mean Annual Temperature is the average of 50 years of annual temperature of the region.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

99. Find out the incorrect statement

1. Range of Temperature is difference between highest and lowest temperature of a place.
2. Diurnal Range of Temperature is the difference between highest and lowest temperature of a place in a year.
3. Annual range of Temperature is the difference between highest temperature and lowest temperature of a place in a day

A) 1, 2

B) 2, 3

C) 1, 2, 3

D) None of the above

100. Find out the correct statement

1. The longer wavelengths are absorbed by greenhouse gases in the atmosphere, decreases the temperature of atmosphere.
2. The energy for the earth is from the oceans

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

101. Find out the correct statement about greenhouse gases

1. These greenhouse gases act like a greenhouse
2. It retains some of the heat energy would otherwise be lost to space.
3. The retaining of heat energy by the atmosphere is called the 'greenhouse effect'.

A) 1, 2

B) 2, 3

C) 1, 3

D) 1, 2, 3

102. Which of the following are greenhouse gases?

1. Carbon dioxide
2. Water vapor
3. Methane
4. Ozone

A) 1, 2, 3

B) 2, 3, 4

C) 1, 2, 4

D) 1, 2, 3, 4

103. Find out the incorrect statement

1. Greenhouse gases are those gases that contribute to the greenhouse effect.
2. The largest contributing source of greenhouse gas is the burning of fossil fuels

3. Burning of fossil fuel leading to the emission of carbon dioxide from industries, automobiles and domestic.

- A) 1, 2
- B) 2, 3
- C) All the above
- D) None of the above

104. An urban heat island is a metropolitan area that is significantly warmer than its surrounding is known as

- A) Urban heat region
- B) Urban heat island
- C) Urban Warm Island
- D) Urban heat source

105. Ways to reduce the impact of urban heat island is

1. Use energy-efficient appliances and equipment
2. Shift all industries away from the urban area.
3. Reduce emission from automobiles.
4. Install green and cool roofs

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

106. Find out the incorrect statement

1. Atmospheric pressure is defined as the force per unit area exerted against a surface by the weight of the air molecules above the earth surface.

2. The atmospheric pressure is distributed uniformly over the earth

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

107. The amount of pressure increases or decreases, according to the amount of _____?

- A) Heat
- B) Pressure
- C) Atoms
- D) Molecules

108. Find out the incorrect statement

1. When temperature of the air increases, the air expands and reduces the number of molecules over the unit area.

2. It leads to reduction in pressure

3. Atmospheric pressure is measured by an instrument called 'Barometer'

- A) 1, 2
- B) 2, 3
- C) All the above
- D) None of the above

109. Find out the incorrect statement

A) The relationship analysis between altitude and atmospheric pressure is very peculiar.

B) The upper atmosphere is thick and less dense.

C) The pressure at sea level is lower

D) B and C

110. Find out the correct statement

1. The temperature and atmospheric pressure are directly proportional.

2. Isobar is an imaginary line connecting the places of uniform atmospheric pressure reduced to mean sea level

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

111. Consider the following statements:

Assertion (A): In the northern hemisphere objects drift towards right and towards left in the southern hemisphere.

Reason (R): It happens because of presence of Coriolis force

Codes:

A) Both (A) and (R) are true and (R) is the correct explanation of (A)

B) Both (A) and (R) are true but (R) is not the correct explanation of (A)

C) (A) is true but (R) is false

D) (A) is false but (R) is true

112. Find out the correct statement

1. The revolution of the earth affects the moving objects on the earth surface.

2. Free moving objects, affected by the revolution of the earth, do not follow a straight line

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

113. Find out the incorrect statement

1. A car travelling down a straight road at 95 km/hr in northern hemisphere would drift to the left of the path if the friction between surface and tyre is absent.

2. The tendency is called as Coriolis Effect as it was discovered by G.G. Coriolis

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

114. Which of the following rocket launching places located in east coast?

1. Sriharikota

2. French Guyana.

3. Mumbai

A) 1, 3

B) 1, 2

C) 2, 3

D) 1, 2, 3

115. Consider the following statements about cool air, find the incorrect.

1. Cool air is dense and heavy.

2. As a consequence it sinks vertically.

3. It results in additional weight and pressure

A) 1, 2

B) 2, 3

C) 1, 2, 3

D) 3, 1

116. Find out the correct statement

1. When the air gets heated it expands, becomes light and rises vertically.

2. As air rises, the pressure it exerts on the earth surface is increased

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

117. Which of the followings are pressure belts of earth?

1. Equatorial low pressure belt

2. Subtropical low pressure belts

3. Sub polar high pressure belts

4. Polar low pressure belts

A) 4, 2, 3

B) 2, 3 only

C) 1 only

D) 1, 2, 3, 4

118. Find out the correct statement

1. Wind direction is identified by an instrument called Anemometer.

2. Wind speed is measured by Wind Vane

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

119. Find out the correct statement

1. Wind is the vertical movement of air molecules

2. Wind moves from areas of low pressure to areas of high pressure.

3. The wind always moves perpendicular to isotherm

A) 1, 2

B) 2, 3

C) All the above

D) None of the above

120. Which of the following deflects the direction of the wind?

A) Gravitational force

B) Centrifugal force

C) Coriolis force

D) Frictional force

121. Totally there are _____ pressure belts on the globe.

- A) 8
- B) 5
- C) 4
- D) 7

122. Which of the following belt is called as Doldrums?

- A) The sub polar low pressure belt
- B) Polar high pressure belt
- C) The equatorial low pressure belt
- D) The subtropical high pressure belt

123. Consider the following statements, find out the correct answer

1. This belt is between 58 degree N and 58 degree S
2. This is the region of calm, weak and changeable winds.
3. Due to the high temperature over this region, the air gets heated expands and become lighter and rises upward and creates low pressure over the region

- A) The sub polar low pressure belt
- B) Polar high pressure belt
- C) The equatorial low pressure belt
- D) The subtropical high pressure belt

124. Find out the correct statement about equatorial low pressure belt

1. The winds blow from the subtropical high pressure belt towards the equatorial low pressure belt.
2. Due to Coriolis Effect these winds are deflected to the left in the northern hemisphere and to the right in the southern hemisphere.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

125. 'Trade winds' are located in which of the following region?

- A) Equatorial low pressure belt
- B) Subtropical high pressure belts

C) Sub polar low pressure belts

D) Polar high pressure belts

126. Which belt is called as 'Horse latitude'?

- A) Equatorial low pressure belt
- B) Subtropical high pressure belts
- C) Sub polar low pressure belts
- D) Polar high pressure belts

127. Find out the correct statement about subtropical high pressure belt

1. The subtropical high pressure belt is between 25 degree to 35 degree N and S
2. Air begins to cool when it reaches higher altitude over equatorial region and flows towards the poles.
3. This wind collides with the wind coming from the polar region at higher altitude and subsides down over subtropical latitudes.

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

128. Find out the incorrect statement

1. The sinking air in subtropical high pressure belt bifurcated in to two branches
2. These sinking air flows towards the equator and poles, they are called as navigation winds and westerly respectively.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

129. The sub polar low pressure belt is

- A) 55 degree to 65 degree N and S
- B) 50 degree to 70 degree N and S
- C) 55 degree to 60 degree N and S
- D) 50 degree to 60 degree N and S

130. Find out the correct statement

1. The constant low temperature at the poles due to direct solar radiation leads to the formation of polar high pressure belt on both poles

2. Reduced insolation leads to the formation of polar high pressure belt on both poles.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

131. Find out the correct statement

1. The high pressure on the surface always coincide with the high pressure at lower altitude
2. The low pressure on the surface always coincides with low pressure on the higher altitude.

3. High pressure always has convergence of air masses from the center

4. Low pressure has convergence of air masses from the center

- A) 1, 2, 3
- B) 2, 3, 4
- C) All the above
- D) None of the above

132. In the southern hemisphere between the latitudes 40° and 60°S are called as _____

1. Roaring Forties
2. Furious Fifties
3. Screeching Sixties

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

133. Which of the following is correctly matched?

1. The subtropical high pressure belt - 25 degree to 35 degree N and S
2. Polar high pressure belt - 80 degree N and S to pole
3. The sub polar low pressure belt - 50 degree to 60 degree N and S
4. The equatorial low pressure belt - 58 degree N and 58 degree S

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

D) 1, 2, 3, 4

134. Which are two important bases on which the pressure belts are formed?

1. Temperature
2. Pressure
3. Wind speed
4. Dynamism

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

135. Which of the following pressure belts are formed because of temperature?

1. Equatorial low pressure belt
2. Subtropical high pressure belts
3. Sub polar low pressure belts
4. Polar high pressure belts

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

136. Which of the following pressure belts are formed because of dynamism?

1. Equatorial low pressure belt
2. Subtropical high pressure belts
3. Sub polar low pressure belts
4. Polar high pressure belts

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

137. The cell along with trade winds, equatorial low and subtropical high pressure belt is called as

- A) Hadley cell
- B) Polar cell
- C) Harley cell
- D) Ferrell cell

138. Find out the correct statement

1. The cell formed by westerly wind along with subtropical high and sub polar low pressure belt is called as Harley cell
2. The cell formed at polar by polar easterly with polar high and sub polar low pressure belt is called polar cell
- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2
139. Which of the following cells are present in meridional cell system?
1. Hadley cell
2. Polar cell
3. Harley cell
4. Ferrell cell
- A) 1, 2, 3
B) 1, 3, 4
C) 1, 2, 4
D) 2, 3, 4
140. ITCZ stands for
- A) Inter Tropical Covering Zone
B) Inter Temperate Convergent Zone
C) Inter Tropical Convergent Zone
D) International Tropical Convergent Zone
141. Inter Tropical Convergent Zone is
- A) The region where both polar wind systems meet
B) The region where both westerly wind systems meet
C) The region where both easterly wind systems meet
D) The region where both trade wind systems meet
142. The pressure belts and primary wind systems are dynamic in character, because
- A) They shift 10 degree north and 10 degree south from their position
B) They shift 15 degree north and 15 degree south from their position
C) They shift 8 degree north and 8 degree south from their position
D) They shift 5 degree north and 5 degree south from their position
143. Find out the incorrect answer
1. Monsoon alone is considered as secondary wind system
2. Secondary wind system is also called as regional wind system
- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2
144. Find out the correct statement
1. The word monsoon is derived from Greek word mausim
2. Mausim means monsoon
3. Monsoon is not a seasonal wind
- A) 1, 2
B) 2, 3
C) All the above
D) None of the above
145. Find out the correct statement
1. The land absorbs less heat energy during summer, which leads to formation of low pressure over the continent
2. The ocean will have relatively higher temperature than the continent leading to formation of high pressure system over ocean
- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2
146. Find out the incorrect statement
1. The wind blows from sea to land during winter
2. The wind blows from land to sea during summer
- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2
147. Which mechanism has an important effect on rainfall received over ocean and continent?

- A) Blowing wind
- B) High pressure
- C) Low temperature
- D) Air molecules

148. Which of the following are natures of monsoon system?

1. Minimum 180 degree reversal of wind direction between seasons.
2. They affect a large part of the continents and oceans.
3. The formation of low and high pressure systems over land and water

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

149. If any wind system has all the characters of monsoon in one season but absence of at least one in the other season then is called as

1. Pseudo monsoon
2. Monsoon Tendency
3. False monsoon
4. Incorrect monsoon

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

150. Monsoon system is classified into how many groups based on the location?

- A) 3
- B) 4
- C) 2
- D) 5

151. The Asian monsoon system is divided into two components, those are

1. Spring Monsoon of Asia
2. Summer Monsoon of Asia
3. Winter Monsoon of Asia
4. Autumn Monsoon of Asia

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

D) 4, 1

152. During summer monsoon of Asia the presence of high temperature in _____ region creates low pressure in that region

- A) Lake Victoria
- B) Lake Huron
- C) Lake Baikal
- D) Lake Superior

153. Find out the correct statement

1. The Asian monsoon system is divided into two components based on season it flows.
2. The presence of high temperature with low pressure in the lake Baikal region and
3. Low temperature with high pressure in the Aleutian Islands region leading to flow of wind from Pacific Ocean to interior part of Asia during summer is called 'summer monsoon of Asia'

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

154. The summer monsoon of Asia leads to rainfall in which region?

1. West coast of Asia
2. North coast of Asia
3. East coast of Asia
4. South coast of Asia

155. South Asian Monsoon includes which of the following countries?

1. India
2. Pakistan
3. Bangladesh
4. Sri Lanka
5. Myanmar

- A) 1, 2, 3, 5
- B) 2, 3, 4, 5
- C) 1, 2, 3, 4
- D) 1, 2, 3, 4, 5

156. Find out the correct statement about South Asian monsoon

- A) South Asian monsoon system has been classified into two groups

B) This monsoon is divided based on the direction of origin of ocean

C) They are south east monsoon and North West monsoon

D) B and C

157. Find out the incorrect statement

1. During summer in south west monsoon the Indian peninsula is heated less than the sea around it.

2. Intense high pressure is formed in the region of Peshawar of Pakistan.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

158. Find out the correct statement about south west monsoon

1. During summer, the Indian Ocean has higher pressure due to relatively low temperature.

2. So the wind blows from Indian Ocean towards South Asia as Southeast Winds.

3. The wind turns towards left due to Coriolis Effect and blows as south west winds which bring heavy rains.

4. This is known as south west monsoon in Indian Subcontinent.

A) 1, 2, 3

B) 2, 3, 4

C) 1, 2, 4

D) 1, 2, 3, 4

159. During south west monsoon south west winds which bring heavy rains around _____ months of the year.

A) 3

B) 4

C) 5

D) 2

160. Find out the correct statement

1. The Arabian Sea branch of south west monsoon strikes the Western Ghats at perpendicular direction and rises over it.

2. The orographic effect by the Western Ghats results in low rainfall in the windward side and heavy rainfall in the leeward side.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

161. Which is the first state to receive rainfall from the south west monsoon in India?

A) Tamil Nadu

B) Kerala

C) Mumbai

D) Karnataka

162. South west monsoon starts in India during

A) First week of June

B) Second week of June

C) First week of July

D) Second week of July

163. Which results in orographic rainfall in Sri Lanka?

A) Bay of Bengal branch winds

B) Arabian Sea branch

C) Indian Ocean branch

D) Jet streams

164. Which of the following is the first place which receives rainfall during south west monsoon in India during middle of May?

A) Little Andaman

B) Great Nicobar

C) Barren Island

D) Neil Island

165. Consider the following statements:

Assertion (A): Coromandel Coast of India doesn't get enough rainfall during south west monsoon.

Reason (R): Bay of Bengal branch flows from south west, results in orographic rainfall in Sri Lanka.

Codes:

A) Both (A) and (R) are true and (R) is the correct explanation of (A)

B) Both (A) and (R) are true but (R) is not the correct explanation of (A)

C) (A) is true but (R) is false

D) (A) is false but (R) is true

166. Find out the correct statement about Bay of Bengal branch of south west monsoon

A) The wind strikes Arakanyoma Mountain in Myanmar and results in heavy rainfall in eastern coast of Myanmar.

B) The wind funnels towards north eastern part of India after deflected by the Arakanyoma Mountain in Myanmar.

C) This wind strikes Meghalaya plateau which leads to heavy rainfall in Nepal and North eastern part of India

D) A and C

167. Find out the correct statement

1. Mawsynram, the wettest place in the world

2. Mawsynram is located in the windward side of Deccan plateau.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

168. Which of the following leads to flood in River Brahmaputra during south west monsoon?

A) Bay of Bengal branch

B) Arabian Sea branch

C) Jet streams

D) Polar easterly winds

169. Which of the following place the Bay of Bengal branch joins with Arabian Sea branch?

A) Sikkim

B) West Bengal

C) Nepal

D) Bihar

170. The south west monsoon gradually withdraws from south Asian continent due to

A) Movement of the Sun towards the northern hemisphere

B) Movement of the Sun towards the southern hemisphere

C) Movement of the Sun towards the eastern hemisphere

D) Movement of the Sun towards the western hemisphere

171. Which of the following is called as Retreating Monsoon?

A) North east monsoon

B) South west monsoon

C) Asian monsoon

D) South Asian monsoon

172. Find out the correct statement about north east monsoon

1. During winter the Indian Subcontinent becomes hotter than the Indian Ocean.

2. As a result the wind blows from Northwest to South east direction

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

173. Find out the incorrect statement about north east monsoon

1. This is dry wind system and it produces rainfall in the coastal region of south Asia

2. This wind produce rainfall in the Coromandel Coast of India and Sri Lanka.

3. This is known as North East Monsoon or Retreating Monsoon in South Asia.

A) 1, 2

B) 2 only

C) 1 only

D) None of the above

174. During the El Nino year the temperature of the which ocean water increases

A) Pacific Ocean

B) Arctic Ocean

C) Atlantic Ocean

D) Indian Ocean

175. The tertiary winds are formed due to _____?

A) Temperature difference

B) Rotation of earth

C) Pressure gradients

D) Heating of atmosphere

176. Air begins to blow from high pressure over ocean to the low pressure over the land is called

A) Land breeze

B) Sea breeze

C) Valley breeze

D) Mountain breeze

177. Find out the correct statement

1. Fishermen go for fishing at early morning along the sea breeze

2. Fishermen return to the shore in the evening with the land breeze.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

178. Find out the correct statement

1. During night time, the wind blows from land to sea and it is called as sea breeze

2. Sea breeze and land breeze influence the movement of boats near the coastal region and fisher men use these winds for their daily fish catching.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

179. Find out the correct statement about valley wind

1. A valley breeze develops during the day as the sun heats the land surface and air at the valley bottom and sides.

2. As the air gets heated it becomes high dense and begins to blow gently down the valley sides.

3. This is called as valley wind

A) 1, 2

B) 2, 3

C) 3, 1

D) 1, 2, 3

180. Find out the correct statement about mountain wind

1. The valley wind process reverses at night

2. It leads to blow of wind from valley bottom to mountain top referred to as mountain wind

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

181. Find out the correct statement

A) Mountain and valley wind systems influence the weather pattern of the mountain top and valley bottom.

B) Mountain top can be seen clearly at evening

C) Valley bottom can be seen clearly at early morning

D) B and C

182. Find out the correct statement

A) Mountain top will be covered with clouds at evening due to rising of valley wind system

B) Valley bottom would be covered by clouds at early morning due to arrival of mountain wind system.

C) These clouds are sometimes called as mist

D) A and B

183. Which of the followings are local winds?

1. Bora

2. Chinook

3. Fohn

4. Harmattan

5. Karaburan

6. Khamsin

7. Loo

8. Mistral

A) 1, 2, 3, 4, 6, 7

B) 2, 3, 4, 5, 6, 8

C) 1, 3, 4, 5, 6, 7, 8

D) 1, 2, 3, 4, 5, 6, 7, 8

184. Which of the following are north easterly wind blows from Eastern Europe to north eastern Italy?

A) Bora

B) Chinook

C) Fohn

D) Harmattan

185. Find out the correct statement

1. Khamsin is north easterly from North Africa to the eastern Mediterranean

2. Loo is hot and dry wind which blows over plains of India and Myanmar

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

186. Find out the correct statement about nor' wester

1. Wind that brings rain to west coast of New Zealand's south island

2. It is caused by mass prevailing winds being uplifted over the Southern Alps

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

187. Black storm is occurs in

A) Karaburan

B) Khamsin

C) Loo

D) Mistral

188. Which of the following is called as Harmattan?

A) North easterly from Eastern Europe to north eastern Italy

B) Dry northerly wind across central Africa

C) South easterly from North Africa to the eastern Mediterranean

D) Hot and dry wind which blows over plains of India and Pakistan

189. Warm dry westerly off the Rocky Mountains is

A) Bora

B) Chinook

C) Fohn

D) Harmattan

190. Which of the following is known as fohn?

A) Warm dry northerly off the northern side of the Alps and Switzerland.

B) Warm dry southerly off the northern side of the Andes and Switzerland.

C) Warm dry southerly off the southern side of the Alps and Switzerland.

D) Warm dry southerly off the northern side of the Alps and Switzerland.

191. Which of the following is correctly matched?

1. Harmattan - Africa

2. Karaburan - Central Asia

3. Mistral - France

4. Nor'easter - United States

A) 1, 3, 4

B) 2, 3, 1

C) 4, 3, 2

D) 1, 2, 3, 4

192. A very strong wind which blows in pampa is called?

A) Bora

B) Pampero

C) Fohn

D) Harmattan

193. Simoom blows in which of the following places?

1. Jordan

2. Syria

3. Sahara

4. Israel

5. Egypt

A) 2, 3, 4, 5

B) 1, 2, 3, 5

C) 1, 2, 4, 5

D) 1, 2, 3, 4

194. Find out the correct statement

1. Zonda wind is a southerly from North Africa to southern Europe

2. Sirocco blows on the eastern slope of Andes in Argentina

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

195. Find out the correct statement

1. Jet streams are high altitude easterly wind system

2. Jet streams flows at height of 6 km to 24 km

3. Jet streams blows with high speed up to 150 km/ hour

A) 2, 3

B) 2, 1

C) All the above

D) None of the above

196. Which of the following is called as 'Circum polar wind system'?

A) Westerly wind

B) Polar easterly wind

C) Trade wind

D) Jet streams

197. Find out the incorrect statement

1. The wavy structure of the jet streams represented as Rossby waves

2. Jet streams were discovered during the First World War

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

198. Which of the following are Major impacts of Jet streams?

1. Creation of Polar vortex

2. Sudden burst of South west monsoon

3. Late and early monsoon in South Asia

4. Intensity of monsoon rainfall

A) 1, 2, 3

B) 2, 3, 4

C) 1, 3, 4

D) 1, 2, 3, 4

199. Find out the correct statement.

1. Polar westerly jet stream will carry cold polar air masses towards temperate region

2. This creates severe cold waves in North America and Australia during winter.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

200. Which leads to sudden burst of South west monsoon into Indian Subcontinent?

A) Withdrawal of polar westerly jet stream from Indian subcontinent to southern part of Pamir

B) Withdrawal of polar easterly jet stream from Indian subcontinent to northern part of Pamir

C) Withdrawal of polar westerly jet stream from Indian subcontinent to northern part of Himalayas

D) Withdrawal of polar westerly jet stream from Indian subcontinent to northern part of Pamir

201. Find out the correct statement

1. Rate of with drawl of polar easterly jet stream decides the onset of south west monsoon.

2. Slower and faster rate of with drawl leads to late and early onset of south west monsoon

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

202. Which leads to increasing intensity of rainfall during south west monsoon?

A) Polar easterly jet stream

B) Tropical westerly jet stream

C) Tropical easterly jet stream

D) Polar westerly jet stream

203. Find out the correct statement about polar westerly jet streams

1. Polar westerly jet stream carries rainy clouds from cyclones formed over Mediterranean Sea during summer towards India.

2. These clouds piles up on the Himalayas and results in rainfall over the states of Delhi and Haryana.

3. This assists in the cultivation of rice in India.

A) 1, 2

B) 2, 3

C) All the above

D) None of the above

204. Find out the correct statement

1. Humidity is the amount of water in the atmosphere.
2. Pressure of the air controls the capacity of the air to hold moisture.
3. The maximum amount of moisture that can be hold by the air in the particular temperature is called as Humidity Capacity

A) 1 only

B) 2 only

C) 3 only

D) All the above

205. Find out the incorrect statement

1. As the volume increases with the temperature of the air, it can hold more moisture.
2. As the pressure increases with the temperature of the air, it can hold more moisture.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

206. Consider the following statements, find out the correct answer

1. It measures the total amount of water vapor present in the air at particular time.
2. It is highly variable based on the surface on which the air moves

A) Relative humidity

B) Absolute humidity

C) Actual humidity

D) Direct humidity

207. Find out the correct statement

1. Hygrometer is used to measure the relative moisture of a region.
2. Relative Humidity is the ratio of Actual humidity and humidity capacity in term of percentage.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

208. Find out the correct statement about relative humidity

A) It reveals the condition of air to get saturated

B) This is controlled by both temperature and pressure content of the air.

C) The condition is that when the temperature increases relative humidity (RH) % decreases.

D) A and C

209. What is saturation of air?

A) Air reaches 200 % relative humidity

B) Air reaches 100 % relative humidity

C) Air reaches 100 % absolute humidity

D) Air reaches 100 % actual humidity

210. Find out the correct statement

1. If an air reaches 100% relative humidity, it means that the air is completely filled with moisture content.

2. It indicates that both the absolute humidity and the relative humidity of the air are in same level

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

211. The temperature at which the air gets saturated is called as

A) Saturation point

B) Dew point

C) Mist point

D) None of the above

212. Find out the incorrect statement, about super saturation

A) The RH crosses the 100% when the temperature of the air drops below its dew point.

B) This condition is called as 'super saturation' of the air.

C) In this condition the air releases the less moisture out of it in the form of tiny water droplets

D) A and B

213. Which of the following is called cloud on the ground?

- A) Mist
- B) Frost
- C) Smog
- D) Fog

214. Which of the following is correctly matched?

1. Transpiration – Water changes from liquid state to gaseous state.
2. Evaporation – Water state changes from liquid in to vapor state due to the activity of plants.
3. Evapotranspiration – Evaporation and the activity of plants transpiration.

- A) 1, 2
- B) 2 only
- C) 3 only
- D) All the above

215. Find out the incorrect statement

1. Clouds are tiny water droplets suspended in the air
2. Clouds are formed due to the convection
3. The clouds can be classified based on their form, design and appearance

- A) 1, 2
- B) 2, 3
- C) 3, 1
- D) None of the above

216. Which of the following are high clouds?

1. Cirrus
2. Cirrocumulus
3. Cirrostratus
4. Nimbus

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

217. Consider the following statements, find the correct answer

1. This looks fibrous and appears as wisps cotton in the blue sky.

2. It indicates fair weather

- A) Cirrus
- B) Cirrocumulus
- C) Cirrostratus
- D) Nimbus

218. Which of the following clouds form the mackerel sky?

- A) Cirrus
- B) Cirrocumulus
- C) Cirrostratus
- D) Nimbostratus

219. Which of the following clouds a halo?

- A) Cirrus
- B) Cirrocumulus
- C) Cirrostratus
- D) Nimbostratus

220. Find out the incorrect statement

1. Middle Clouds are mainly Alto (Alt) clouds
2. Middle clouds located at 2 km to 9 km above the ground.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

221. Consider the following statements, find the correct answer.

1. These are bumpy clouds arranged in layers appearing like waves in the blue sky.
2. They indicate fine weather.

- A) Altostratus
- B) Stratocumulus
- C) Nimbostratus
- D) Altocumulus

222. Find out the correct statement

1. Altostratus is denser and have watery look.
2. Isoneph is the imaginary line connecting the places having equal amount of moisture

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

223. Which of the following are low clouds?

1. Stratus
2. Nimbostratus
3. Stratocumulus

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

224. Find out the correct statement

1. Low Clouds are mainly Stratus or sheet clouds below 5 km height.
2. Stratocumulus is soft and bumpy clouds with wavy structure.

- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2

225. Which cloud is a hindrance to air transportation?

- A) Altostratus
B) Stratocumulus
C) Nimbostratus
D) Stratus

226. Which is called as rainy clouds?

- A) Altostratus
B) Stratocumulus
C) Nimbostratus
D) Stratus

227. Find out the incorrect statement

1. Clouds with vertical extent are mainly cumulus clouds whose heights extend from 7 km to 10 km
2. These clouds are cumulus and cumulonimbus respectively

- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2

228. Which is called as fair weather cloud?

- A) Cumulonimbus
B) Nimbostratus

- C) Cumulus
D) Cirrostratus

229. Find out the incorrect statement

- A) Cumulonimbus is over grown cumulus cloud with great vertical extent, with black and white globular mass.
B) The cauliflower top spreads like an anvil.
C) This is formed due to heavy convection in the Polar Regions.

D) A and B

230. Find out the incorrect statement

1. Fog is defined as almost microscopic droplets of water condensed from super saturated air and suspended over surface of the earth
2. Fog occurs during calm wind conditions.

- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2

231. Fogs reduce the visibility to less than _____?

- A) 1.5 km
B) 2 km
C) 1 km
D) 2.5 km

232. Consider the following statements:

Assertion (A): Fog is more common in the areas near to the ocean.

Reason (R): Due to the supply of more moisture by land breeze

Codes:

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
C) (A) is true but (R) is false
D) (A) is false but (R) is true

233. Find out the incorrect statement

1. In the interior of the continents fog is formed due to reduction of temperature to extreme low during the summer nights

2. If the fog has higher visibility due to lesser water drops near the surface it is termed as frost.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

234. Find out the correct statement

- A) In large industrial areas the air is more polluted.
- B) If the fog forms in that industrious area it mixes with the pollutants and turns into smog
- C) Smog is less hazardous to the health of the people.
- D) A and B

235. Find out the correct statement

1. Continuous movement of water among the three spheres is known as Hydrological Cycle.
2. Hydrological cycle involves evaporation, condensation, precipitation except advection

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

236. Find out the incorrect statement

1. Evaporation is the process by which water in liquid state changes into vapor state using radiation from Sun.
2. Evaporation is maximum when the temperature is high.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

237. Consider the following statements, find out the correct statement

1. It is the process by which water vapor cools to form water droplet by losing temperature.
2. It occurs when dew point is reached in the atmosphere.

- A) Evapotranspiration
- B) Precipitation

C) Advection

D) Condensation

238. Find out the correct statement

1. Interception is the process by which all forms of water particles fall from the atmosphere
2. The rain drop that falls may get evaporated before it reaches the ground in an extremely arid region.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

239. Find out the correct statement

1. The study of air mass is very important part of Geology.
2. Air always takes some of the properties of the area over which it lies.
3. This parcel of air does not remain stationary for several days.

- A) 1 only
- B) 2 only
- C) 2, 3
- D) 1, 2, 3

240. Find out the incorrect statement

1. An air mass is defined as an immense body of air several kilometers in length and height and thickness
2. It is characterized by homogeneous physical properties in vertical direction at any level.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

241. Find out the correct statement

- A) An extensive portion of the surface area over which air mass has acquired its qualities is called as 'Air mass source region'.
- B) The source region must be land
- C) Northern and Southern Pacific, Atlantic Oceans are favorable locations as source region for air masses.

- D) A and C

242. The air masses can be classified based on which of the following factors

1. Latitude
2. Nature of the surface
3. Stability
4. Temperature
5. Longitude
6. Pressure

A) 2, 3, 4, 5, 6

B) 1, 2, 4, 5, 6

C) 2, 3, 4, 6

D) 1, 2, 3, 4

243. Find out the incorrect statement about air masses

1. Air masses normally migrate from their source region to other regions, which have different surface properties

2. As the air masses move out from their source regions, they modify the weather of the areas

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

244. The zone of transition between two contrasting air mass is called as?

A) Fronts

B) Smog

C) Mist

D) Frost

245. Which of the following fronts result in the formation of cumulonimbus clouds?

A) Warm front

B) Heavy front

C) Cold front

D) None of the above

246. Which of the following clouds associated with lightning and thunder?

A) Cumulus

B) Stratus

C) Cirrostratus

D) Cumulonimbus

247. Find out the correct statement

1. If warm air is moving over a cold air mass it produces a steep slope called as warm front

2. Warm fronts results in the formation of cumulonimbus and nimbostratus clouds

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

248. Which of the following are conditions for formation of fronts?

1. There must be two air mass with contrasting physical characters.

2. There must be collision of air mass.

3. There must be deflection between two air masses

A) 1, 3

B) 2, 3

C) 1, 2

D) 1, 2, 3

249. Consider the following statements:

Assertion (A): At the equatorial low pressure belt though there is two trade wind systems meet they do not form any front

Reason (R): Because of high temperature in equatorial region

Codes:

A) Both (A) and (R) are true and (R) is the correct explanation of (A)

B) Both (A) and (R) are true but (R) is not the correct explanation of (A)

C) (A) is true but (R) is false

D) (A) is false but (R) is true

250. Find out the incorrect statements

A) Acid rain is a rain that is unusually acidic

B) Acid rain has elevated levels of nitrogen ions

C) Acid rain is caused by chemical compounds like Sulphur di oxide and nitrogen oxide that are released into air by anthropogenic activities and tsunami

D) B and C

251. PH value of normal rain

A) 5.9

B) 4.5

C) 5.6

D) 6

252. Normally the rainfall is slightly acidic, because of presence of dissolved

A) Carboxylic acid

B) Chloric acid

C) Carbonic acid

D) Sulfuric acid

253. One method to cause artificial rainfall from clouds is by introducing?

A) Solid CO₂

B) Solid N₂

C) Solid H₂

D) Solid O₂

254. Find out the correct statement about cloud seeding

1. The dry ice causes ice crystals to form in the cloud.

2. These ice crystals coalesce, grow, melt and fall as rain.

3. Cloud seeding will not be successful unless the cloud is already saturated with carbon dioxide

A) 1, 3

B) 2, 3

C) 1, 2

D) 1, 2, 3

255. Find out the correct statement about precipitation

1. Precipitation is the product of condensation of atmospheric water vapor that falls under gravity and reach the surface of the earth.

2. In order to fall as rain drop or snow, the tiny drop lets in a cloud must grow larger.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

256. Find out the incorrect statement about ice crystals

A) Ice crystals in cloud also cause precipitation.

B) Each ice crystal grows by cooling so that they become small in size and fall to the ground.

C) They melt on the way due to gravity with the atmosphere and fall as rain.

D) B and C

257. Which of the following are forms of precipitation?

1. Rainfall

2. Snow

3. Sleet

4. Dew

5. Hail

A) 1, 2, 3, 4

B) 2, 3, 5

C) 1, 3, 4, 5

D) 1, 2, 3, 4, 5

258. Find out the correct statement

1. When water droplets of more than 0.5 cm diameter falls from the atmosphere to the ground it is called as 'Rainfall'.

2. If the diameter is less than 0.5cm, it is called as 'Drizzle'.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

259. Consider the following statements, find the correct answer

1. When precipitation occurs at subzero temperature, the water droplets crystallize

2. It fall as ice pellets with the size of 5 to 50 mm or some times more

A) Hail

B) Sleet

C) Snow

D) Dew

260. Which of the following is called as sleet?

A) Falling of raindrop along with ice pellets less than 0.5 mm diameter

B) Falling of raindrop along with ice pellets less than 15 mm diameter

C) Falling of raindrop along with ice pellets less than 5 cm diameter

D) Falling of raindrop along with ice pellets less than 5 mm diameter

261. Find out the incorrect statement

1. Precipitation occurs at below freezing point and falls as thin ice flakes called as dew.

2. Condensation of water droplets on the objects at the surface of the earth such as leaves and grasses are called as snow.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

262. Precipitation can be classified based on the causes for the rising up of air as how many types?

A) 4

B) 3

C) 6

D) 7

263. Find out the correct statement about convectional rainfall

1. As a result of heating of the surface air, the warm moist air expands and is forced to rise to a great height.

2. As the air rises, it cools, reaches freezing point and condenses to form clouds.

3. This process influences the upper tropospheric circulation.

A) 1, 2

B) 2, 3

C) 1, 3

D) 1, 2, 3

264. Which rain is called as 4 'O' Clock rainfall?

A) Convectional rainfall

B) Orographic rainfall

C) Cyclonic rainfall

D) None of the above

265. Consider the following statement, find out the correct answer

1. It occurs when large mass of air is forced to rise across land barriers

2. It also called as relief rainfall

A) Convectional rainfall

B) Orographic rainfall

C) Cyclonic rainfall

D) None of the above

266. Consider the following statements:

Assertion (A): The leeward side of the mountain is called as the rain shadow region

Reason (R): As the wind moves to the leeward side it has emptied itself of moisture and thus descends the slope as warm dry winds

Codes:

A) Both (A) and (R) are true and (R) is the correct explanation of (A)

B) Both (A) and (R) are true but (R) is not the correct explanation of (A)

C) (A) is true but (R) is false

D) (A) is false but (R) is true

267. Consider the following statements, find out the correct answer

1. This type of precipitation is associated with a cyclonic activity

2. It is associated with Cumulonimbus clouds

A) Convectional rainfall

B) Frontal rainfall

C) Orographic rainfall

D) None of the above

268. Find out the incorrect statement

1. 'Frontal rainfall' is associated with fronts which form due to collision of different air masses.

2. Warm front is formed due to advent of warm air masses which leads to moderate rainfall

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

269. Find out the correct statement

1. When altitude increases, the rainfall also increases in orographic pattern.

2. In orographic pattern where the rainfall decreases with altitude is called 'Falling of Rainfall'.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

270. Which is called as 'Maximum Rainfall Line'?

1. The rainfall increases with altitude, once the amount of moisture reduces in the air after a point where it reaches maximum rainfall

2. The rainfall decreases with altitude, once the amount of moisture reduces in the air after a point where it reaches maximum rainfall

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

271. Find out the correct statement

1. An isohyets or isohyetal line is a line joining points of equal rainfall on a map in a given period.

2. A map with isohyets is called an isohyetal map.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

272. Cloud bursts occurs in the region of

- 1. Uttarkhand
- 2. Delhi
- 3. Chennai
- 4. Kerala

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

273. Find out the incorrect statement

1. Meteorologists say that the rain from a cloud burst is usually of the heavier rain with a fall rate equal to or greater than 500 mm per hour.

2. Generally cloudbursts are associated with thunderstorms.

3. The air currents rushing down words in a rain storm hold up a large amount of water

- A) 1, 2
- B) 2, 3
- C) 3, 1
- D) None of the above

274. Find out the correct statement

A) Lightning and Thunder are caused by differences in the electrical charge of different parts of the cloud.

B) The top of the cloud becomes negatively charged and the bottom is mostly positively charged.

C) When the difference in the electrical charge is less lightning occurs

D) B and C

275. Find out the incorrect statement

1. Differences in the charge between cloud and the earth surface cause lightning.

2. Thunder is caused by rapid contraction of the air that is heated as the lightning passes through it.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

276. Find out the correct statement

1. The atmospheric disturbances which involve a closed circulation of air around a low pressure at center and high pressure at periphery

2. It rotates anticlockwise in southern hemisphere and clockwise in northern hemisphere is called 'Cyclones'

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

277. Which of the followings are types of cyclone?

- 1. Temperate cyclone

2. Polar cyclone
3. Tropical cyclone

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

278. Tropical cyclones are formed in?

- A) High latitudes
B) High longitudes
C) Low latitudes
D) Low longitudes

279. Arrange the following based on stages of development of tropical cyclone

1. Tropical Disturbance
2. Tropical Depression
3. Tropical cyclone
4. Severe Cyclonic Storm
5. Very Severe cyclonic storm
6. Super Cyclonic Storm

- A) 1, 3, 4, 2, 5, 6
B) 2, 1, 3, 4, 6, 5
C) 2, 1, 4, 3, 5, 6
D) 1, 2, 3, 4, 5, 6

280. Match the following

- a) Tropical depressions - 1. Wind speed between 62 and 88 km ph.
b) Tropical cyclone - 2. Wind speed from 89 to 118 km ph.
c) Severe Cyclonic Storm - 3. Wind speed is between 31 to 61 km ph.
d) Super Cyclonic Storm - 4. When wind exceeds 221 km ph.

a b c d

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

281. Tropical cyclones are formed if tropical oceans with sea surface temperature is ____

- A) 27 degree C
B) 17 degree C

- C) 37 degree C
D) 47 degree C

282. What is called as low wind shear?

- A) Winds which do not vary greatly with breadth
B) Winds which do not vary greatly with width
C) Winds which do not vary greatly with length
D) Winds which do not vary greatly with height

283. Find out the correct statement

1. Coriolis force is induced by the revolution of the Earth.

2. The mechanisms of formation of cyclones does not vary across the world,

3. Once a cluster of storm clouds starts to rotate, it becomes a tropical disturbance.

- A) 1, 2
B) 2, 3
C) All the above
D) None of the above

284. Find out the correct statement

A) The center of the cyclone where the wind system converges and horizontally rises is called as Eye.

B) The eye is a Calm region with no rainfall

C) The eye experiences lowest temperature and highest pressure within the cyclonic system

D) A and C

285. Cyclone wall is made up of _____ clouds?

- A) Nimbus
B) Stratus
C) Cumulonimbus
D) None of the above

286. Find out the correct statement

1. Tropical cyclones mostly move along with the direction of easterly wind system.

2. They travel from west to east and make land fall on the eastern coast of the continents

- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2

287. Find out the incorrect statement

1. Cyclone wall is made up of Cumulonimbus clouds with no visibility

2. The condition at which the eye of the tropical cyclone crosses the land is called 'Land fill' of the cyclone

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

288. Since 1953, _____ storms have been named from lists originated by the National Hurricane Centre?

- A) Atlantic temperate
- B) Arctic temperate
- C) Atlantic tropical
- D) Arctic tropical

289. Find out the incorrect statement

1. Large scale destruction caused by Odisha cyclone in 1991, triggered the issue of naming tropical cyclones developed in the North Indian Ocean.

2. As a result, naming conventions for storms that develop in the Indian Ocean began in 2004.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

290. Consider the following statements, find the correct answer

1. It is a very small intense, funnel shaped very speed whirl wind system.

2. Its speed and direction of the movement are erratic

- A) Water spout
- B) Tornado
- C) Cyclone
- D) Anticyclone

291. TORNADOS are frequent in which country?

- A) UK
- B) USA
- C) UAE
- D) None of the above

292. Find out the incorrect statement

1. Water spouts are formed over water body similar to tornados in the formation and structure.

2. This sometimes leads to fish rain, if the volume of fish comes under the water spout

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

293. Temperate cyclones are otherwise called as

- 1. Wave cyclone
- 2. Relative cyclone
- 3. Static cyclone
- 4. Dynamic cyclone

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

294. Arrange the stages in the Formation of Temperate Cyclone

- 1. Frontogenesis
- 2. Advancing Stage
- 3. Cyclone genesis
- 4. Frontolysis
- 5. Occlusion stage

- A) 1, 3, 2, 5, 4
- B) 2, 3, 1, 4, 5
- C) 5, 4, 3, 2, 1
- D) 2, 1, 3, 4, 5

295. Which of the following is correctly matched?

- 1. Frontogenesis –Formation of front due to collision of two contrasting air masses
- 2. Cyclone genesis – Formation of cyclone due to conversion of fronts into various sectors.
- 3. Advancing Stage – The stage where cold front advances towards warm front

- A) 2, 3
- B) 1 only
- C) 1, 2
- D) 1, 2, 3

296. Find out the incorrect statement

1. Unlike tropical cyclone, temperate cyclone forms over both land and water in all seasons.
2. It covers lesser area than tropical cyclone and stays for a longer period.
3. Temperate cyclone moves along with the easterly wind system from west to east.

- A) 1, 2
- B) 2, 3
- C) All the above
- D) None of the above

297. Find out the correct statement

1. Anticyclone is a whirlwind system in which high pressure area at the center and surrounded by low pressure at periphery
2. It rotates clockwise in southern hemisphere and anti-clock wise in northern hemisphere

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

298. Find out the correct statement

1. Anticyclone is the largest among the whirl wind systems.
2. Normally, they are associated with high pressure belts of subtropical and polar region.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2