

PHYSICAL GEOGRAPHY NDA 2 2023

79. Which one of the following is the oldest era in Geological History determining the age of various rock types ?

- (a) Precambrian
- (b) Mesozoic
- (c) Cenozoic
- (d) Paleozoic

80. A geographical grid has :

1. Lines that run east to west around the globe to mark latitude
2. Lines that run north to south from north pole to south pole indicate longitude

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

81. In which one of the following layers of the atmosphere all weather phenomenon occur ?

- (a) Mesosphere
- (b) Troposphere
- (c) Thermosphere
- (d) Stratosphere

123. Which one of the following is NOT an example of Fold Mountain ?

- (a) Mt. Fuji
- (b) Alps
- (c) Andes
- (d) Rockies

124. Which one of the following is an organic soil ?

- (a) Aridisols
- (b) Histosols
- (c) Oxisols
- (d) Vertisols

(d) Jhansi

126. Which one of the following climatic regions of the world have a typical characteristic of seasonal reversal of wind ?

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- (a) British type Climate
- (b) Mediterranean Climate
- (c) China type Climate
- (d) Monsoon Climate

PHYSICAL GEOGRAPHY NDA 1 2023

57. Which one of the following is *not* an igneous rock ?

- (a) Granite
- (b) Slate
- (c) Basalt
- (d) Gabbro

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

1. Hypocenter is the point on the surface of the Earth, nearest to the focus.
2. Velocity of earthquake waves is higher in denser materials.
3. P waves move faster and are the first to arrive at the surface of the Earth.

Select the correct answer using the code given below :

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

59. In terms of geological time scale, the quaternary period consists of two epochs. They are :
- (a) Pleistocene and Pliocene
 - (b) Holocene and Pleistocene
 - (c) Pleistocene and Miocene
 - (d) Holocene and Eocene
60. Which one of the following is the correct sequence of arrangement of the given planets in descending order of their density (in gm/cm^3) ?
- (a) Earth > Jupiter > Venus > Saturn
 - (b) Jupiter > Earth > Saturn > Venus
 - (c) Earth > Venus > Jupiter > Saturn
 - (d) Earth > Venus > Saturn > Jupiter
61. Which one of the following is **not** a cold current ?
- (a) Western Australian Current
 - (b) Eastern Australian Current
 - (c) Benguela Current
 - (d) Peru Current
62. The process of Podsolization is predominantly found in :
- (a) Equatorial forest
 - (b) Monsoon forest
 - (c) Taiga forest
 - (d) Mediterranean forest

90. Which one of the following is *not* a main greenhouse gas ?

- (a) Water vapour
- (b) Oxygen
- (c) Carbon dioxide
- (d) Methane

- A)

92. Which one among the following is the northernmost geographical location ?

- (a) New Delhi
- (b) Kathmandu
- (c) Thimphu
- (d) Dhaka

93. Consider the following statements :

1. Distance between the longitudes becomes zero on North Pole and South Pole.
2. Distance between the longitudes is maximum on the Equator.
3. Number of longitudes is more than number of latitudes.

Which of the statements given above is/are correct ?

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

132. In the soil-forming regime, which one of the following occurs in a region where evapotranspiration exceeds precipitation significantly ?

- (a) Calcification
- (b) Laterization
- (c) Podsolization
- (d) Gleization

133. Which one of the following is found in the innermost part of the Earth ?

- (a) Conrad discontinuity
- (b) Moho discontinuity
- (c) Guttenberg discontinuity
- (d) Lehmann discontinuity

135. Which one of the following is the lowermost/innermost intrusive igneous rock ?

- (a) Laccolith
- (b) Batholith
- (c) Lopolith
- (d) Phacolith

136. If it is 12 noon in New Delhi, what will be the time in London, UK ?

- (a) 6:30 A.M.
- (b) 6:30 P.M.
- (c) 5:30 A.M.
- (d) 5:30 P.M.

137. Which of the following positions of Sun, Earth and Moon is/are suitable for Spring Tide ?

1. SYZYG Y Conjunction
2. SYZYG Y Opposition
3. Quadrature

Select the correct answer using the code given below :

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

PHYSICAL GEOGRAPHY NDA-II 2022

60. Which one of the following statements about earthquake waves is **not** correct?

- (a) P waves move faster and are the first to arrive at the surface.
- (b) P waves can travel through gaseous, liquid and solid materials.
- (c) Seismographs located beyond 145° from epicentre can record the arrival of P waves.
- (d) P waves have maximum area covered under its shadow zone.

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91. Which one of the following statements about metamorphic rocks is **not** correct?

- (a) Due to segregation of minerals into wavy bands or platy surfaces, some metamorphic rocks develop foliations.
- (b) Where the foliations develop into broad mineral bands, the metamorphic rock is extremely hard.
- (c) Where the foliations are moderately thin, the metamorphic rock tends to flake apart.
- (d) Rocks that originally were composed of one dominant mineral are often foliated by metamorphism.

92. Which one of the following 'discontinuities' separates the Earth's crust from the mantle?

- (a) Gutenberg
- (b) Mohorovicic
- (c) Conrad
- (d) Repetti

93. Which one of the following cities of the world would represent the greatest linear velocity of rotation of the Earth?

- (a) Kampala, Uganda
- (b) St. Petersburg, Russia
- (c) Madrid, Spain
- (d) Stockholm, Sweden

94. What will happen if you are flying east across the International Date Line?

- (a) You will lose 12 hours
- (b) You will gain 12 hours
- (c) You will gain 24 hours
- (d) You will lose 24 hours

95. The Prime Meridian does **not** pass through which one of the following African countries?

- (a) Morocco
- (b) Algeria
- (c) Mali
- (d) Ghana

96. Piecing together the puzzle of geologic time to create and analyze historical maps of the Earth is known as

- (a) paleoclimatology
- (b) paleogeomorphology
- (c) paleolithology
- (d) paleogeography

127. The formation of 'tors' on small rocky hills is associated with which among the following?

- (a) Granite
- (b) Limestone
- (c) Alluvial
- (d) Dolomite

128. Consider the following statements about anticyclones :

1. Anticyclones are high pressure systems.
2. Air in the centre of the system must be subsiding.
3. Anticyclones are characterized by converging winds.

How many of the above statements is/are correct?

- (a) 1
- (b) 2
- (c) 3
- (d) None

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

1. The Earth's crust is brittle in nature.
2. The mean thickness of the oceanic crust is 15 km, whereas that of the continental crust is around 30 km.

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

108. Vapours of sulphur escaping from a volcano often form a crust on the rocks. The process involved is an example of

(a) condensation

(b) precipitation

(c) deposition

(d) evaporation

PHYSICAL GEOGRAPHY NDA-1 2022

107. According to the Indian Meteorological Department, which of the following is/are the feature/features of cloudburst?

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1. Heavy precipitation in short period of time in a limited geographical area
2. It occurs generally during monsoon period and triggers flash flood and landslides

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

108. In a group discussion on shape and size of the Earth, three students stated the following points :

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1. Student 1 : The shape of the Earth is basically an oblate spheroid.
2. Student 2 : The polar diameter of the Earth is more than the equatorial diameter.
3. Student 3 : Bulge along the equatorial region is due to revolution of the Earth.

Who among the above students is/are correct?

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

109. While watching news, you hear about a place, of which you had never heard earlier. You want to know more about the place and you want to locate it on the map. Which of the following is/are required for you to be able to locate the place on the map?

- (a) Only latitude of the place
- (b) Only longitude of the place
- (c) Both longitude and latitude of the place
- (d) Latitude, longitude and altitude of the place

117. Inhabitants are unaware of the speed of rotation of the planet Earth because

1. the angular velocity is constant for each place on the Earth's surface
2. the atmosphere rotates with the Earth
3. there are no nearby objects, either stationary or moving at a rate different from that of the Earth

Which of the above is/are the correct explanation(s)?

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

118. While travelling to a hilly region, you notice a massive boulder, which was loosened by heavy rains and moved downhill. This has resulted due to which of the following processes?

1. Mass wasting
2. Erosion
3. Weathering

Select the correct answer using the code given below.

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

119. Which of the following statements in respect of landslides are correct?

1. These occur only on gentle slopes during rain.
2. They generally occur in clay-rich soil.
3. Earthquakes trigger landslides.

Select the correct answer using the code given below.

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

120. Consider the following features about a geographical phenomenon :

1. Torrents of snow and ice roaring down a steep mountain side
2. It is hazardous to skiers and mountaineers
3. It involves a mix of falling, rolling, sliding and flowing of materials

Which of the following phenomena can be identified with the above features?

- (a) Slump and earthflow
- (b) Avalanche
- (c) Landslide
- (d) Rockslide

133. Snow, sleet and hail are the forms of

- (a) precipitation
- (b) condensation
- (c) transpiration
- (d) evaporation

134. Which one of the following is likely to be the most prevalent form of weathering in hot-tropical desert areas?

- (a) Mechanical
- (b) Chemical
- (c) Biological
- (d) Leaching

139. Weathering, mass wasting, erosion and transportation are indicators of which one of the following processes?

- (a) Denudation
- (b) Endogenetic process
- (c) Diastrophism
- (d) Mountain building

140. If you want to observe moraines, eskers and outwash plains, which one of the following Union Territories you may have to visit?

- (a) Andaman and Nicobar Islands
- (b) Lakshadweep
- (c) Puducherry
- (d) Ladakh

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PHYSICAL GEOGRAPHY NDA 2 2021

54. Fine-grained bed of ephemeral lake in a desert is also known as
- (a) Playa
 - (b) Oasis
 - (c) Drumlin
 - (d) Natural levee
55. Which one of the following factors does *not* affect the distribution of groundwater ?
- (a) Amount of precipitation
 - (b) Rate of evaporation
 - (c) Ability of the ground surface to allow water to infiltrate into the groundwater system
 - (d) Distance from the sea

63. The Earth's atmosphere is mainly heated by which one of the following ?

- (a) Short wave solar radiation
- (b) Reflected solar radiation
- (c) Long wave terrestrial radiation
- (d) Scattered solar radiation

64. Which one of the following is the correct sequence of layers as we move from the Earth's surface upwards ?

- (a) Troposphere, Stratosphere, Thermosphere, Mesosphere
- (b) Troposphere, Stratosphere, Mesosphere, Thermosphere
- (c) Thermosphere, Mesosphere, Stratosphere, Troposphere
- (d) Stratosphere, Mesosphere, Troposphere, Thermosphere

65. Which one of the following is *not* a soil forming factor ?

- (a) Parent material
- (b) Topography
- (c) Climate
- (d) Human habitation

66. Which one of the following best describes the Lithosphere ?

- (a) Upper and lower mantle
- (b) Crust and core
- (c) Crust and upper mantle
- (d) Lower mantle and core

67. Which one of the following countries has the maximum time difference from Greenwich Mean Time (GMT) ?

- (a) India
- (b) Nepal
- (c) Sri Lanka

77. Which one of the following is the longest parallel of latitude ?

- (a) Tropic of Cancer
- (b) Tropic of Capricorn
- (c) Arctic Circle
- (d) Equator

78. The periodic rise and fall of ocean water in response to gravitational forces is called

- (a) Current
- (b) Waves
- (c) Tides
- (d) Tsunami

85. Which one of the following features is the result of erosion and deposition work of a river ?

- (a) Pothole
- (b) Oxbow lake
- (c) Levee
- (d) Rapid

PHYSICAL GEOGRAPHY NDA 1 2021

109. Which one of the following is *not* a minor plate ?

- (a) Cocos Plate
- (b) Nazca Plate
- (c) Caroline Plate
- (d) Antarctic Plate

110. Advantage(s) of tectonic activity in Iceland include(s) :

- 1. Source of natural geothermal energy
- 2. Creation of new land
- 3. Attraction of tourists

Select the correct answer using the code given below :

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

111. The process whereby certain minerals absorb water, expand and change is called as

- (a) Hydration.
- (b) Oxidation.
- (c) Hydrolysis.
- (d) Carbonation.

112. Which one of the following is the longest Latitude ?

- (a) 90 degree Latitude
- (b) 23.5 degree Latitude
- (c) 0.0 degree Latitude
- (d) 66.5 degree Latitude

113. If it is 12.00 Noon in India, on which meridian will it be 7.00 am of the same day ?

- (a) 7.5 degree E. Longitude
- (b) 7.5 degree W. Longitude
- (c) 75 degree E. Longitude
- (d) 75 degree W. Longitude

119. Basket-of-eggs topography is related to

- (a) **Drumlins.**
- (b) **Eskers.**
- (c) **Cirques.**
- (d) **Moraines.**

120. Which one of the following planets has the highest density ?

- (a) **Mercury**
- (b) **Venus**
- (c) **Jupiter**
- (d) **Earth**

121. Point of Origin of Earthquake Wave is known as

- (a) **Epicentre.**
- (b) **Focus.**
- (c) **Photosphere.**
- (d) **Seismic Zone.**

122. The maximum depth of Lithosphere is found in the

- (a) Pacific Ocean.
- (b) Siberian Plain.
- (c) Patagonian Desert.
- (d) Himalayan Mountains.

123. A large body of magmatic material that cools in the deeper depth of the Earth's crust and develops in the form of large domes is known as

- (a) Batholiths.
- (b) Lacoliths.
- (c) Lopoliths.
- (d) Phacoliths.

131. Which one of the following is *not* a form of condensation ?

- (a) Dew
- (b) Fog
- (c) Frost
- (d) Sleet

132. Which one of the following clouds is a rain-bearing cloud ?

- (a) Cumulus cloud
- (b) Stratus cloud
- (c) Nimbus cloud
- (d) Cirrus cloud

PHYSICAL GEOGRAPHY NDA 2020

108. Which one of the following is the natural vegetation of South east China ?

- (a) Subtropical broadleaf evergreen forest
- (b) Tropical broadleaf evergreen forest
- (c) Tropical deciduous forest
- (d) Temperate evergreen forest

109. Which one of the following is a cold local wind ?

- (a) Santa Ana
- (b) Chinook
- (c) Mistral
- (d) Loo

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PHYSICAL GEOGRAPHY NDA 2 2019

103. The rivers of North-West Europe are good examples of

- (a) parallel pattern of drainage.
- (b) radial pattern of drainage.
- (c) barbed pattern of drainage.
- (d) trellis pattern of drainage.

104. Which one of the following ocean currents is a cold current ?

- (a) South Atlantic Drift
- (b) Mozambique Current
- (c) East Australian Current
- (d) Caribbean Current

106. Which one of the following hypothesis/theory explains the origin of the universe ?

- (a) Nebular hypothesis
- (b) Binary theory
- (c) Big Bang theory
- (d) Planetesimal hypothesis

110. Consider the following statements concerning the Russian Revolution :

1. The Bolsheviks believed that in a repressive society like Tsarist Russia, the party should be disciplined and should control the number of its members.
2. The Mensheviks believed that the party should be opened to all (as in Germany).

Which of the statement/s given above is/are correct ?

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

112. Which one of the following land territories of Indonesia is **not** touched by the Equator ?
- (a) Sumatra
 - (b) Sulawesi
 - (c) Java
 - (d) Kalimantan
113. Which one of the following sedimentary rocks is organically formed ?
- (a) Shale
 - (b) Chert
 - (c) Halite
 - (d) Chalk
114. According to the Köppen climatic classification, the letter code Cfa denotes
- (a) Tropical wet climate.
 - (b) Humid subtropical climate.
 - (c) Tundra climate.
 - (d) Tropical wet and dry climate.
115. In which one of the following folds is the axial plane found to be virtually horizontal ?
- (a) Isoclinal
 - (b) Anticlinal
 - (c) Recumbent
 - (d) Monoclinal

125. The normal lapse rate of temperature of Earth's atmosphere drops to 0°C at the

- (a) upper part of ionosphere.
- (b) upper boundary of the tropopause.
- (c) lower part of mesosphere.
- (d) upper boundary of stratopause.

131. Lithosphere consists of

- (a) upper and lower mantle.
- (b) crust and core.
- (c) crust and uppermost solid mantle.
- (d) mantle and core.

128. Stalactite, stalagmite and pillars are the depositional landforms of

- (a) running water.
- (b) wind.
- (c) glacier.
- (d) underground water.

129. A deep valley characterized by steep step-like slope is known as

- (a) U-shaped valley.
- (b) Blind valley.
- (c) Gorge.
- (d) Canyon.

130. Which one of the following is a major plate ?

- (a) Pacific Plate
- (b) Cocos Plate
- (c) Arabian Plate
- (d) Philippine Plate

NPHYSICAL GEOGRAPHY nDA 1 2019

56. Spring tides refer to

- (a) greatest difference in the sea level at high and low tides
- (b) lowest difference in the sea level at high and low tides
- (c) no difference in the sea level at high and low tides
- (d) counteraction of gravitational pull of the Sun to that of Moon

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66. Which one of the following is NOT true in reference to Air mass ?

- (a) Air mass forms either in tropical or in polar region
- (b) Air mass develops on continents as well as over ocean
- (c) Air mass develops in a cyclonic condition
- (d) Air mass changes the weather conditions

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68. "Campos" and "Llanos", Tropical Savanna grasslands are generally found in

- (a) Australia
- (b) Central Africa
- (c) South America
- (d) East Asia

69. "Viticulture" is a common feature of which one of the following Australian cities?

- (a) Adelaide
- (b) Darwin
- (c) Hobart
- (d) Brisbane

70. "Shamal" warm and dry wind is a
"Local" wind found in

- (a) East Asia
- (b) West Coast of Africa
- (c) Sahara of Africa
- (d) Mesopotamia

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71. "Inversion of Rainfall" is associated
with

- (a) Orographic rainfall
- (b) Convectional rainfall
- (c) Cyclonic rainfall (Tropical)
- (d) Cyclonic rainfall (Temperate)

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91. Which of the following is/are environmental effects of Rotation of the Earth?

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1. Daily or diurnal rhythm in daylight and air temperature

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2. Flow path of both air and water are turned consistently in a side-ward direction

3. The movement of the tides

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) 3 only

106. Consider the following statements relating to Richter scale :

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1. It was devised in 1935 by Charles F. Richter
2. It describes the quantity of energy released by a single earthquake
3. Richter Scale has no upper limit

Which of the statements given above is/are correct ?

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

107. Which one of the following ocean currents is NOT a cold ocean current ?

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- (a) Canary current
- (b) California current
- (c) Kuroshio current
- (d) Oyashio current

108. What is the time gap in occurrence of two successive tides at a given place on the ocean surface ?

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- (a) 12 hours
- (b) 12 hours 26 minutes
- (c) 24 hours
- (d) 24 hours 52 minutes

123. Which one of the following can be said to be essentially related to 'Polar Front Theory' ?

- (a) Anticyclone
- (b) Tropical Cyclone
- (c) Temperate Cyclone
- (d) Inter Tropical Convergence

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