

PYQs on Geography

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Que. Which is the coldest Atmospheric layer of Atmosphere.

- ① Troposphere
- ② Ionosphere
- ③ Mesosphere
- ④ Stratosphere



Reference : Physical Geography : Savindra Singh : Page 495

61. Warming in the Earth's stratosphere is mainly caused by
- (a) Release of latent heat energy during condensation
 - (b) Frictional heating caused by meteorites
 - (c) Chemical reaction between ozone and chlorofluoro-carbons
 - (d) Absorption of solar radiation by ozone

Climatology

1.2.5
Temperature, Water vapour.

Which -
leading to production of stratiform clouds and precipitation.
The south western and north-western sector of the cyclone
are called Warm Sector (WS) and Cold Sector (CS) respectively.
Reference : Physical Geography : Savindra Singh : Page 496

✓ 56. Most of the weather phenomena takes place in troposphere only because

- (a) temperature remains almost constant in troposphere
- (b) it contains electrically charged particles
- (c) it absorbs harmful ultraviolet radiation from the sun
- ✓✓ (d) it contains almost all the water vapour and most dust particles

Ques. What is the average Albedo of Earth.

(a) 27-35%.

(b) 45%.

(c) 50-55%.

(d) > 80%.

is much greater than the land because the relative density of water is much lower than that of land surface. Water takes more time to get heated and also to get cooled as compared to land.

Reference : Physical Geography : Savindra Singh : Page 228

41. The percentage of radiant energy reflected back by a surface is called

- | | |
|----------------|-----------------------|
| (a) Albedo | (b) Greenhouse effect |
| (c) Insolation | (d) Refraction |

Reference : Physical Geography : Savitri Singh

33. Consider the following statements :

1. Ozone is found mostly in the Stratosphere
2. Ozone layer lies 55-75 km above the surface of the earth
3. Ozone absorbs ultraviolet radiation from the Sun
4. Ozone layer has no significance for life on the earth

Which of the above statements are correct ?

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

153

✓ **4. Mean monthly temperature means**

- (a) the sum of daily temperature in a month
- (b) the sum of daily temperature in a year divided by 12
- ✓ (c) the sum of daily mean temperature in a month divided by the number of days in that month
- (d) the sum of daily noon temperature divided by the number of days in that month

✓

Q. Kalahari desert is close to which other desert.

- (a) Great Sandy Desert
- (b) Sonarian Desert

- (c) Namib Desert

- (d) Rub-ul-Khali

S Desert

Vegetation started in equatorial region first, after that shifting towards mid latitude. Ice-sheet advance and recession were evidently not synchronous over all parts of even one continent.

Answer

- The main cause of Kalahari being a desert is
- (a) the cold currents near the coast
 - (b) its location on the west coast in the tropics
 - (c) its location in the tropics
 - (d) that its people are primitive

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Reference : Physical Geography : Savindra Singh : Page 228

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List I (Layers of Atmosphere)

A. Stratosphere

B. Exosphere

C. Troposphere

D. Ionosphere

1.

2.

3.

4.

5.

List II (Characteristics related with the layers)

1. Temperature decreases with increasing height

2. Aurora Borealis and Aurora Australis are produced

3. Contains much of the total atmospheric ozone

4. No ethereal clouds are observed over high latitude in summer

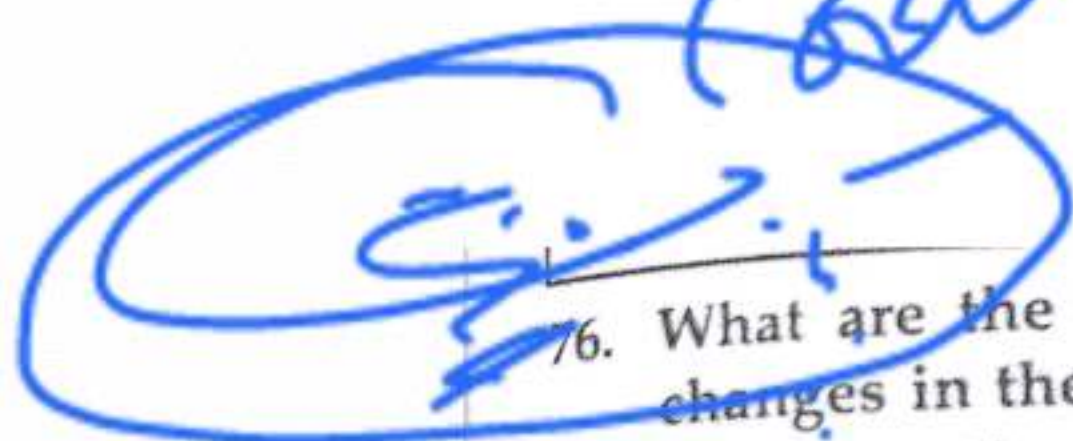
5. Atoms of oxygen, hydrogen and helium form the tenuous atmosphere

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

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

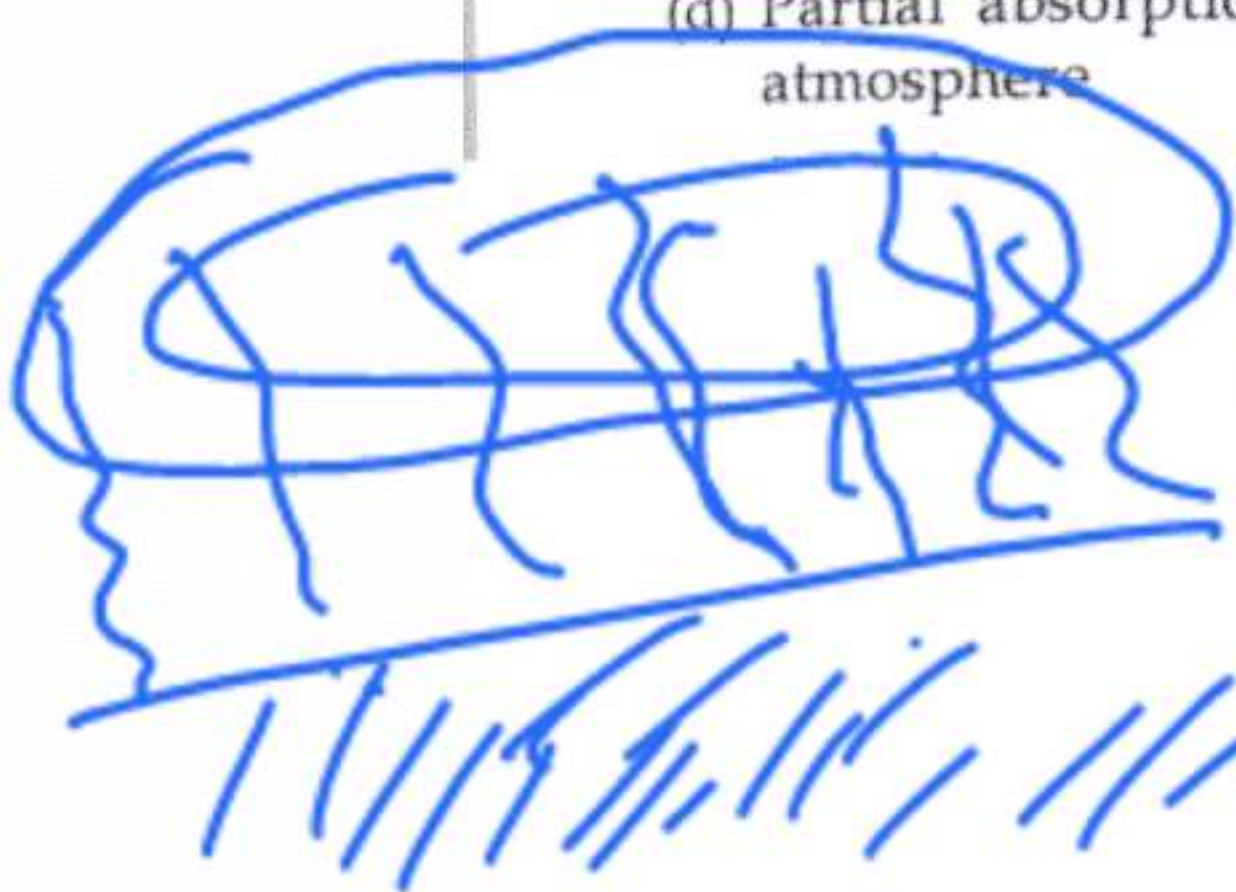
Adiabatic

تبدل



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

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



Adiabatic

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- Nimbus : 'Nimbus' refers to rain-bearing cloud.
- Cumulus : 'Cumulus' in latin refers to a heap or a pile shape and this cloud grows vertically.

Reference : Physical Geography : Savindra Singh : Page 473

71. In the Hadley cell, rising air is found in the

- (a) Subtropical high pressure zone
- (b) Trade winds
- (c) Westerlies
- (d) Inter - tropical convergence zone (ITCZ)



d) Slow movement of air, so that there is no transfer and mixing of heat in the lower layers of the atmosphere.

Reference : Physical Geography : Savindra Singh : Page 431

86. Which one of the following is the correct statement ?

Kalahari is a desert because it

- (a) lies in the tropics
- (b) is on the leeward side of a mountain
- (c) underlies a high pressure cell
- (d) receives only land winds

87. Temperate cyclones are characterised by which of the following ?

- (a) Fronts
- (b) Diverging winds
- (c) Dry winds
- (d) Hot winds

✓ 35. Consider the following statements :

1. In an overturned fold, the axial plane is inclined and both limbs dip in the same direction.
2. A recumbent fold is one in which the axial plane is essentially horizontal.

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

1.05

Hawaii is an isolated chain of eight volcanic islands and 124 islets in the Pacific Ocean, lying about 4000 km from the nearest landmass, the west coast of North America.

138. With reference to earthquakes which one of the following statements is not correct ?

- (a) L waves travel along the surface of the earth's crust
- (b) As the P waves propagate, they move material in a path parallel to the direction of movement
- (c) S waves move objects at right angles to their direction of motion
- (d) S waves propagate through even liquid material

Soln.

Exupria



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Bulk of

Vulcanism volcano

124. Consider the following statements :

'Vulcanicity' refers to

1. all those processes in which molten rock material or magma rises into the crust.
2. the greater bulk of the volcanic rocks of the earth's surface were erupted from volcanoes.
3. the process of solidification of rock into crystalline or semicrystalline form from molten rock material after being poured out on the surface.

Which of the statements given above are correct ?

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

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126. Consider the following landform characteristics :

1. Stream divides are sharp and ridge-like resulting in a minimum of inter stream uplands
2. Extensive areas are at or near the base level of erosion
3. There are a few consequent trunk streams but few large tributaries. Numerous short tributaries and gullies are extending themselves by head ward erosion and developing valley systems

Which one of the following is the orderly sequence of landform characteristics given above in an idealized Fluvial Cycle ?

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

117. Assertion (A) : A river system can continue to cut down its valleys at approximately the same rate as uplift and so maintains its general pattern and direction.

Reason (R) : In case of an antecedent drainage system, the river is said to have originated before a period of uplift and folding of land as a result of earth movement.

104. Consider the following statements :

1. Where fold mountains run parallel and close to the coast, continental shelf is narrow or absent
2. The average depth for continental shelf is 100 metres
3. Submarine canyons are mostly found in continental slope
4. The submarine flat topped mountains are called guyots

Which of the statements given above are correct ?

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

... seldom horizontal. Recumbent folds are formed when the compressive forces are so strong that both the limbs of the fold become parallel as well as horizontal.

Reference : Physical Geography : Savindra Singh : Page 85

95. Which of the following plate movements is responsible for the formation of mid - ocean ridge ?

- (a) Divergent movement
- (b) Convergent movement
- (c) Transform fault movement
- (d) Parallel movement

99. Match List I (Term) with List II (Process Involved) and select the correct answer :

<i>List I</i>				<i>List II</i>					
A.	Valley-in-valley profile			1.	Karst topography				
B.	Collapse sinks			2.	Earthquake				
C.	Shadow zone			3.	Planation				
D.	Exhumed erosion surface			4.	Rejuvenation				
	A	B	C	D	A	B	C	D	
(a)	3	1	2	4	(b)	4	2	1	3
(c)	3	2	1	4	(d)	4	1	2	3

arrangement of planets around the Sun in our solar system, i.e., smaller ones at the end and bigger ones in middle.

Reference : Physical Geography : Savindra Singh : Page 27

75. The most recent geological epoch of the Quaternary Period covering the 10000 years or so from the end of the Pleistocene epoch to the present day is known as

- | | |
|---------------|--------------|
| (a) Pliocene | (b) Miocene |
| (c) Oligocene | (d) Holocene |

to flow far down valley before making a junction with the larger stream. ... the natural levees

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

List I (Cause)

- A. Normal Faulting
- B. Saltation
- C. Ice scouring
- D. Infiltration of water

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

List II (Result)

- 1. Aquifer
- 2. Kettle hole
- 3. Escarpment
- 4. Transportation of stream-load

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

67. Consider the following statements :

1. Continental shelves are wider where high mountains are very close and parallel to the coast.
2. Continental shelves are formed by prolonged deposition of detritus under sea water in those areas where sea conditions are calm.
3. Extensive continental shelves are formed by marine erosion of the continental margins during the time of negative change of the sea level.
4. Continental shelves are formed by the submergence of continental margins due to tilting of land towards sea.

Which of the above statements are correct ?

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

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

List I (Agent)

- A. River
- B. Wind
- C. Glacier
- D. Underground water

List II (Landform)

- 1. Blind valley
- 2. Roche Moutonnee
- 3. Natural levee
- 4. Zeugen

A B C D

(a) 1 2 4 3

(c) 3 2 4 1

A B C D

(b) 3 4 2 1

(d) 1 4 2 3

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... of low, the stream is a
graded stream channel, subject to inundation by a flood about
once annually and underlain by alluvium. Delta, sediment
deposit built by a stream entering a body of standing water
formed of the stream load.

- 39. Alluvial cone is predominant in**
- (a) coastal belt
 - (b) piedmont zone
 - (c) delta region
 - (d) pediment region

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42. Which of the following statements regarding a Fjord are correct ?

1. Most of the Fjords were formed due to a rise in sea level after the melting of Pleistocene ice-sheets.
2. It is an emergent coast which originally was a submerged glaciated valley.
3. It is a long, narrow inlet of the sea bounded by steep mountain slopes extending to considerable depths.
4. It is a glaciated valley that has been inundated by the sea and forms a deep steep-sided coastal inlet.

Select the correct answer using the codes given below :

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

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

List I (Rivers) *List II (Shapes of their deltas)*

- | | |
|------------------|--------------|
| A. Sao Fransisco | 1. Arcuate |
| B. Mississippi | 2. Digitate |
| C. Niger | 3. Estuarine |
| D. Susquehanna | 4. Cuspate |

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

Explanation

Both A and R are correct and also R is the correct explanation of A. Very gradual cooling of a magma enclosed in solid crystal rock results in growth of large mineral crystals and forms intrusive igneous (plutonic) rocks with coarse-grained texture.

Reference : Modern Physical Geography (fourth ed.) : Strahler and Strahler : Page 217

8. **Assertion (A)** : Straight slope is a type recognised by W. Penck.
Reason (R) : Straight slope develops due to increasing intensity of erosion.