



# CAPF AC PYQ

(SUBJECT WISE)

(Institute for Defence exam)

**SUBJECT : GEOGRAPHY**

**YEAR : 2024**

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9. Which one of the following statements about the solstices, an event that occurs when the Sun appears to reach most northerly or southerly, is correct ?

- (a) The winter solstice takes place on June 21 in both the northern and southern hemispheres
- (b) The winter solstice takes place on December 21 in both the northern and southern hemispheres

(c) The summer solstice occurs in northern hemisphere on June 21 and on December 21 in southern hemisphere

(d) The summer solstice occurs in northern hemisphere on December 21 and on June 21 in southern hemisphere

33. Consider the following characteristics of a type of wind :

1. They occur at upper levels in the atmosphere
2. They are subjected to two forces, a pressure gradient force and the Coriolis force
3. When the forces balance, air moves at right angles to the pressure gradient, parallel to the isobars

Identify the type of wind on the basis of the given characteristics :

- (a) Jet Stream
- (b) Geostrophic Wind
- (c) Westerlies
- (d) Easterlies

31. Consider the following statements regarding the rotation of the Earth :

1. Since the Earth rotates by  $15^\circ$  each hour, time zones normally differ by one hour
2. At the International Date Line, the calendar day changes – advancing a day for eastward travel, dropping back a day for westward travel
3. Daylight saving time advances the clock by one hour
4. The Moon rotates and revolves about the Earth in the same direction that the Earth revolves around the Sun

Which of the statements given above is/are correct ?

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



34. Where does podsolization take place ?

- (a) Regions in high middle latitudes
- (b) Coastal regions in lower latitudes
- (c) Regions with hot and humid climate
- (d) Regions having arid climate

35. Which one of the following statements with reference to the Nebular Hypothesis for the origin of Solar System is correct ?

- (a) The initiation of the nebular hypothesis can be considered as a diffuse, roughly spherical, slowly rotating expanding nebula
- (b) As a result of rotation and expansion, a disk is formed with matter concentrated in the centre
- (c) Expansion continues with the formation of the proto-Sun and the rings of material are left behind
- (d) The material in the rings get condensed and form the planets that revolve in orbits around the Sun

36. If it is 31st December, 2023 in New Zealand, at the same time what will be the date in the Hawaiian Islands and Alaska ?

- (a) Both have 01 January, 2024
- (b) Both have 30 December, 2023
- (c) 31 December, 2023 in Alaska and 01 January, 2024 Hawaiian Islands
- (d) 31 December, 2023 in Hawaiian Islands and 01 January, 2024 in Alaska

37. Which one of the following statement with reference to hailstones is NOT correct ?

- (a) Their formation usually occurs during the monsoon season
- (b) They are associated with dense cumulonimbus clouds
- (c) Rain that forms in the warmer, upper layer solidifies into tiny ice pellets or hailstones in the lower, subfreezing layer
- (d) Hailstones have multiple, concentric layers of ice

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

List I (Ocean Current)	List II (Location)
A. Kuroshio Current	1. Antarctic Ocean
B. Agulhas Current	2. Pacific Ocean
C. East Wind Drift	3. Atlantic Ocean
D. Antilles Current	4. Indian Ocean

Code :

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

40. Which one among the following statements about the Singareni Collieries Company Limited is correct ?

- (a) Located at Kothagudem in Telengana, this is the first and the oldest coal mining company in India in the private sector
- (b) It has now diversified into thermal and solar power generation, explosive manufacturing for blasting in opencast mines and consultancy works
- (c) It has been conferred with 'Navratna' status since 2011
- (d) It is the single largest coal producing company in the world

41. Which of the following processes is/are part of the Rock Cycle ?

- 1. Lithification
- 2. Metamorphism
- 3. Solidification

Select the answer using the code given below :

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



42. Consider the following statements regarding the temperature of the Earth's surface :

- 1. The temperature of a surface is determined by net radiation
- 2. Net radiation produces a radiant energy flow that can heat or cool a surface
- 3. Net radiation balance is usually positive during the daytime and negative during night time
- 4. Soil surface loses energy as temperature increases during the daytime

Which of the statements given above are correct ?

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



45. With reference to 'South Coast of Australia' which of the following statements is/are correct ?

- 1. It is situated along the Indian Ocean
- 2. It experiences rain during its winter months of December and January

Select the answer using the code given below :

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

43. Consider the following statements :

1. Black soil is considered suitable for growing rain-fed crops
2. Black soil can retain moisture for a prolonged period, aiding crops to survive even in dry seasons

With regard to the statements given above which of the following is/are correct ?

- (a) Both the statements are correct and statement 2 is the correct explanation of statement 1
- (b) Both the statements are correct and statement 2 is NOT the correct explanation of statement 1
- (c) Statement 1 is correct but statement 2 is false
- (d) Statement 1 is false but statement 2 is correct

44. Which one among the following countries is NOT a part of the Arabian Peninsula ?

- (a) Kuwait
- (b) Oman
- (c) Libya
- (d) Yemen

