

## PHYSICAL GEOGRAPHY

1. Consider the following statements:
  - A. Height of troposphere is greater over the equatorial area than over the poles.
  - B. Temperature at the top of the troposphere is higher over the poles than over the equator.
 Which of the above statement/statements is/are true?
  - (a) Only A
  - (b) Only B
  - (c) Both A and B
  - (d) Neither A nor B
2. The order of the layers of the atmosphere, upwards from below, is
  - (a) stratosphere, troposphere, thermosphere and mesosphere.
  - (b) exosphere, thermosphere, troposphere and stratosphere.
  - (c) troposphere, stratosphere, mesosphere and thermosphere
  - (d) troposphere, magnetosphere, stratosphere and exosphere.
3. Fall in air temperature with increasing elevation is known as
  - (a) thermal anomaly
  - (b) thermal reduction
  - (c) temperature inversion
  - (d) lapse rate
4. Where is the doldrums belt located?
  - (a) Near the equator
  - (b) Near the polar areas
  - (c) On the Tropic of Cancer
  - (d) On the Tropic of Capricorn
5. What of the following winds blow from subtropical high pressure regions to the equator?
  - (a) Westerlies
  - (b) Tropical easterlies
  - (c) High latitude easterlies
  - (d) Doldrums
6. The stratosphere is said to be ideal for flying jet aircraft. This is because
  - (a) this layer is rich in ozone which reduces fuel consumption
  - (b) the temperature is constant and ideal for aircraft engine efficiency
  - (c) this layer is out of the firing range of anti-aircraft guns
  - (d) of the absence of clouds and atmospheric turbulences
7. Which factors do not affect the amount of insolation?
 

(i) Solar constant	(ii) Surface temperature
(iii) Length of day	(iv) Rotation of the earth

  - (a) i and iii
  - (b) ii and iv
  - (c) iii and iv
  - (d) ii, iii and iv
8. Over which region is the temperature the highest near the tropopause?
  - (a) Around the equator
  - (b) Over the Arctic region
  - (c) Near the Tropic of Capricorn
  - (d) Near the Tropic of Cancer

9. Identify the factors responsible for change in seasons on the earth's surface.
  - (i) Rotation of the earth
  - (ii) Revolution of the earth
  - (iii) Inclination of the axis of the earth
  - (iv) Rotation of the sun
  - (a) i and iii
  - (b) ii and iii
  - (c) i and ii
  - (d) i, ii and iv
10. What is Not True about ionosphere?
  - (a) It reflects the radio waves back
  - (b) Gases here occur in their ionic form
  - (c) It is a cold layer of the atmosphere
  - (d) It overlaps into mesosphere and thermosphere.
11. Farrel's Law is concerned with the
  - (a) direction of winds
  - (b) velocity of winds
  - (c) intensity of waves
  - (d) none of these.
12. What is a cyclone?
  - (a) A low pressure system with clockwise winds in the northern hemisphere
  - (b) A high pressure system with anticlock-wise winds in the northern hemisphere
  - (c) A low pressure system with anticlock-wise winds in the northern hemisphere
  - (d) A high pressure system with clockwise winds in the northern hemisphere.
13. Which ones are wrongly matched?
 

(i) Typhoons—China Sea	(ii) Hurricanes—Indian Ocean
(iii) Cyclone—West Indies	(iv) Tornadoes—Australia

  - (a) i, ii, and iii
  - (b) i, ii and iv
  - (c) i, iii and iv
  - (d) ii, iii and iv
14. What is the chief reason for tropical cyclones not developing close to the equator?
  - (a) A very weak coriolis effect does not favour circular motion of winds.
  - (b) High temperature near equator is unfavourable to their development.
  - (c) Wind velocity in the doldrums belt near equator is very low.
  - (d) High humidity of these regions is a hindrance in their development.
15. What is meant by the term 'cirrus'?
  - (a) A low cloud
  - (b) A rain-bearing cloud
  - (c) A high cloud
  - (d) A hail-bearing cloud
16. What is true about ITC?
  - (a) It is a high pressure belt
  - (b) It is also known as the horse latitudes
  - (c) It is the zone of convergence of the trade winds
  - (d) It is the zone of convergence of the westerlies

17. Modern theory of monsoon considers this system a result of

1. differential heating
  2. rotation of the earth
  3. shifting of pressure belts
  4. high pressure on land
- (a) 1 and 2  
(b) 2 and 4  
(c) 1, 2 and 4  
(d) 1 and 3

18. What is true of the climate of China?

1. Summer rainfall
  2. Year round rainfall
  3. Mid latitude location
  4. Coniferous forests
- (a) all the four  
(b) 1, 2 and 3  
(c) 2 and 3  
(d) 3 and 4

19. What is the other name of the tundra type of climate?

- (a) Humid microthermal
- (b) Dry mesothermal
- (c) Humid mesothermal
- (d) Polar climate

20. Consider the following statements:

- A. Jet streams are geostrophic winds.
  - B. Geostrophic winds blow at right angles to isobars.
- Which of the above statement/statements is/are true?

- (a) Both A and B are true
- (b) Only A is true
- (c) Only B is true
- (d) Neither A nor B is true

**EVALUATE YOURSELF**

Total Marks :

Your Mark :

Topper's Mark :

**SCORE GRADE**

30-40 : Outstanding

A

20-30 : Very Good

B

10-20 : Good

C

0-10 : Average

D

**ANSWER KEYS**

01 c 02 c 03 d 04 a 05 c 06 d 07 b 08 b 09 b 10 c  
11 a 12 c 13 d 14 a 15 c 16 c 17 d 18 c 19 d 20 b