

## TEST – 5 : G.S. SUBJECT (IPM 2023)

### 13. Consider the following statements regarding temperature Inversion

1. It is the condition in which normal lapse rate is inverted.
2. Short winter night, cloudy sky is ideal condition for inversion.
3. Temperature inversion is normal throughout the year over polar areas

Which of the statements given above is/are correct?

- A. 1 only                      B. 1 and 3 only                      C. 2 and 3 only                      D. 1 and 2 only

### 14. Which of the following is /are factors affecting temperature distribution on earth?

1. Latitude of the place
2. Altitude of the place
3. Distance from the sea
4. Water currents
5. Air mass circulation

Which of the statements given above is/are correct?

- A. 1, 2 and 5 only                      B. 2 and 5 only                      C. 1 and 3 only                      D. 1, 2, 3, 4 and 5

### 15. Despite being strong vertical pressure gradient we do not experience strong upward winds because of

- A. Strong Planetary winds                      B. Strong Coriolis force  
C. Strong Earth gravitational force                      D. Strong frictional force in lower atmosphere

### 16. The tropical cyclones do not form near Earth's equator, because of:

- A. Inter tropical convergence zone.                      B. Low gravitational force.  
C. High precipitation.                      D. Zero Coriolis force.

### 17. Consider the following statements regarding Coriolis force .

1. It deflects wind to left direction in northern hemisphere and to right in the Southern Hemisphere.
2. Coriolis force is directly proportional to the angle of latitude.

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

### 18. Which of the following are the factors affecting the General circulation of the atmosphere?

1. Latitudinal variation of atmospheric heating
2. Emergence of pressure belts
3. Migration of pressure belts
4. Distribution of oceans and continents
5. Rotation of the earth

Select the correct answer using the codes given below:

- A. 1, 2 and 4 only                      B. 2, 4 and 5 only                      C. 3, 4 and 5 only                      D. 1, 2, 3, 4 and 5

### 19. Consider the following statements regarding cyclonic circulation:

1. Anticyclonic circulation is Wind circulation around high pressure.
2. Directions of anticyclonic circulation in the northern hemisphere is anti-clockwise.

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

### 20. Consider the following statements:

1. The Extra tropical cyclones originate over both land and sea whereas tropical cyclones originate only over the seas.
2. Tropical cyclones move from west to east whereas extra tropical cyclones move from east to west

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

### 21. Which of the following is a necessary condition for the formation of tropical cyclones

1. Sea surface temperature lower than 27° C
2. Presence of Coriolis force
3. Upper divergence above sea level system
4. Small variations in vertical wind speeds

Select the correct answer using the codes given below:

- A. 1 and 2 only                      B. 2 and 3 only                      C. 1 and 4 only                      D. 2, 3 and 4 only

### 22. Consider the following statements regarding geographical phenomenon

1. Thunderstorms are caused by intense convection on moist hot days.
2. Tornadoes over the sea is called water sprouts.
3. Both are of short duration, occurring over a small area but are violent.

Which of the statements given above is/ are incorrect?

- A. 1 only                      B. 2 only                      C. 3 only                      D. None of the above