Class-ix Subject-Geography

Practice papers of chapter Insolation and atmospheric pressure and winds

- A. Answer the following questions in brief:

 Mynat is meant by the term insolant Answer is meant by the term 'insolation'?

 1. What is meant a small fraction'?

 - 1. Why does only a small fraction of the total
 2. Why radiation reach the surface why are total solar radiation reach the surface of the Earth?
 - 3. How does the Sun produce large amount of energy?
 - 4. Name the instrument used for measuring the maximum and minimum temperature of a day.
 - 5. What is the use of the Stevenson's Screen?
 - 6. How are the daily mean temperature and monthly mean temperature calculated?
 - 7. What is meant by daily and annual range of temperature? How are they calculated?
 - 8. Explain the role of latitude in determining the temperature of a place.
 - 9. Why is a seasonal variation in temperature experienced at a place?
 - 10. Which place has a higher range of temperature-Chennai or Allahabad? Give reasons for both.
 - 11. How do ocean currents influence the distribution of temperature on coastal areas?
 - 12. How do winds affect the temperature of any place?
 - 13. How does altitude of a place affect the temperature?

B. Give reason for the following:

- 1. The south facing glaciers in the Himalayas melt faster than those of north flowing glaciers.
- 2. Places close to equator have a lower range of temperature.
- 3. The vertical rays of the Sun give more heat than the slanting rays.
- 4. There is a great difference in temperature over land and water bodies.
- 5. The interior parts of the continents have greater annual range of temperature.

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- **6.** Deserts have high diurnal range of temperature.
- 7. The cold currents have tropical deserts developed in their adjoining coastal areas.
- 8. Thermometers are kept in Stevenson's Screen in a weather observatory.

C. Define the following:

- 1. Insolation
- 2. Solar Radiation
- 3. Isotherm
- 4. Normal Lapse Rate
- **5.** Convection
- 6. Conduction
- 7. Torrid Zone
- 8. Frigid Zone

D. Distinguish between the following:

- 1. Insolation and terrestrial radiation
- 2. Weather and climate
- 3. Diurnal and annual range of temperature
- 4. Maritime climate and continental climate
- 5. Freezing point and boiling point.

E. Answer the following questions in detail:

- 1. How does the atmosphere get heated up?
- 2. What is the effect of latitude and altitude on distribution of insolation at any place?
- **3.** Describe the seasonal change in temperature and daily change in temperature.
- **4.** Lucknow has greater annual range of temperature than Kolkata. Why?

pistinguish between the following:

Cyclones and Anticyclones.

permanent and Periodic Winds.

Summer and Winter Monsoons.

Structured Questions What is meant by the term 'Atmospheric Pressure'?

- j. (a) Explain briefly the factors that affect Atmospheric Pressure. (b)
 - Give a geographical reason for each of the following: (c)
 - The Westerlies in the Southern Hemisphere blow with greater force than those in the Northern Hemisphere.
 - (ii) There is a seasonal shifting in pressure belts.
 - (iii) As we go higher, the atmospheric pressure decreases.
 - Draw well labelled diagram showing the pressure and wind belts of the earth. (d)
- Briefly explain the three chief types of winds. 2. (a)
 - Describe some of the important types of local winds. (b)
 - Give a geographical reason for each of the following: (c)
 - (i) The winds are directed to the right of their flow in the Northern Hemisphere.
 - (ii) Temperature and pressure are inversely related to one another.
 - (iii) Humid air is lighter than dry air.
 - What is Coriollis Effect? How does it affect the planetary winds? (d)
- Explain the weather conditions associated with tropical and temperate cyclones. 3. (a)
 - What are the Jet Streams? What is the significance of the Jet Streams? (b)
 - Give a geographical reason for each of the following: (c)
 - (i) Doldrums is a low pressure belt.
 - (ii) Equatorial regions have low atmospheric pressure throughout the year.
 - (iii) Low atmospheric pressure prevails over the Circum-polar region.
 - Draw a well labelled diagram showing a cyclone in the Northern Hemisphere. (d)