



মণিপুরৰ শিক্ষা বিভাগ (আম)

**DEPARTMENT OF EDUCATION (S)**  
Government of Manipur

## CHAPTER-3

### AIR

#### **SOLUTIONS:**

#### **EXERCISES**

**1. Answer the following in a word:**

- (a) The lowest layer of the atmosphere. Troposphere
- (b) The layer which sends back radio signals to the earth. Ionosphere
- (c) The incoming solar radiation received by the earth. Insolation

**2. Answer the following questions in about 30 words each.**

- (a) Mention the uses of the two most plentiful gases of the atmosphere.

Ans. 1. Nitrogen which is 78% of the total volume is vital for plant life

2. Oxygen which is 21% of the total volume is used by human beings, animals to breathe.

- (b) Give the significance of the ozone layer to human beings.

Ans. Ozone layer absorbs ultra violet rays from sun which is harmful to all the living organism

- (c) How is the atmosphere heated?

Ans. The heat which falls on the ground surface is transferred to atmosphere through the process of radiation, conduction, convection and advection

- (d) Name the main pressure belts on the surface of the earth.

Ans. 1. Equatorial low pressure belt

2. Sub-tropical high pressure belts

3. Sub-polar low pressure belts

4. Polar high pressure belts

**3. Choose the correct answer:**

(i) The process of conversion of water vapour into water droplets is known as

- (a) Evaporation                      (b) condensation  
(c) Sublimation                      (d) Precipitation

Ans. (b) condensation

(ii) The condition at the atmosphere at a particular place

- (a) Weather                              (b) Climate  
(c) Pressure                              (d) Temperature

Ans. A. Weather

(iii) Based on latitude location, Manipur belongs to

- (a) Tropical zone                      (b) Torrid zone  
(c) Temperate zone                      (d) Frigid zone

Ans. C. Temperate zone

**4. Mark true or false against the following statements:**

- (a) The troposphere is the boundary between the stratosphere and the mesosphere. False  
(b) Air pressure is measured by an instrument called thermometer. False  
(c) Plant absorbs carbon dioxide to make its food. True  
(d) Water vapours is absent in the lower atmosphere. False  
(e) Torrid zone is the hottest part of the earth. True



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