



- Atmosphere** is the blanket of air and moisture that surrounds the earth.
- Air** refers to the invisible gaseous substance surrounding the earth, a mixture mainly of oxygen and nitrogen.
- Wind** refers to the movement of air in the atmosphere
- Anemometer** is used to measure wind speed. It is measured in km/hr.
- Wind Vane** is used to measure direction. It indicates the direction of the wind is from the East, West, North or South . A -Wind Sock can also be used to measure wind direction.
- Wind Chill** refers to a cooling sensation that is caused by the combined effect of temperature and wind.

Temp [C]	Windchill (Celsius) at Windspeed in km/h									
	10	20	30	40	50	60	70	80	90	100
-20	-27,2	-30,5	-32,6	-34,1	-35,4	-36,5	-37,4	-38,2	-39,0	-39,6
-18	-24,8	-28,0	-30,0	-31,5	-32,7	-33,7	-34,6	-35,4	-36,1	-36,7
-16	-22,4	-25,4	-27,3	-28,8	-29,9	-30,9	-31,8	-32,5	-33,2	-33,8
-14	-20,0	-22,9	-24,7	-26,1	-27,2	-28,2	-29,0	-29,7	-30,3	-30,9
-12	-17,7	-20,4	-22,1	-23,4	-24,5	-25,4	-26,2	-26,9	-27,5	-28,0
-10	-15,3	-17,9	-19,5	-20,8	-21,8	-22,6	-23,4	-24,0	-24,6	-25,1
-8	-12,9	-15,3	-16,9	-18,1	-19,0	-19,9	-20,5	-21,2	-21,7	-22,2
-6	-10,5	-12,8	-14,3	-15,4	-16,3	-17,1	-17,7	-18,3	-18,9	-19,3
-4	-8,1	-10,3	-11,7	-12,7	-13,6	-14,3	-14,9	-15,5	-16,0	-16,4
-2	-5,7	-7,8	-9,1	-10,1	-10,9	-11,5	-12,1	-12,6	-13,1	-13,5
0	-3,3	-5,2	-6,5	-7,4	-8,1	-8,8	-9,3	-9,8	-10,2	-10,6
2	-0,9	-2,7	-3,9	-4,7	-5,4	-6,0	-6,5	-7,0	-7,4	-7,7
4	1,5	-0,2	-1,3	-2,0	-2,7	-3,2	-3,7	-4,1	-4,5	-4,8
6	3,9	2,3	1,4	0,6	0,0	-0,5	-0,9	-1,3	-1,6	-1,9
8	6,2	4,9	4,0	3,3	2,8	2,3	1,9	1,6	1,3	1,0
10	8,6	7,4	6,6	6,0	5,5	5,1	4,7	4,4	4,1	3,9

PART A: MULTIPLE CHOICE

Instructions: Shade the letter of the correct answer on the computer scorable answer sheet provided

- Which of the following is the horizontal movement of air across the surface of the earth?
 - Air pressure
 - Drizzle
 - Cloud
 - Wind

- Wind speed is usually expressed in which of the following units?
 - mm
 - °C
 - km/hr
 - kPa

3. What instrument is used to measure the speed of wind?
- (A) Anemometer
 - (B) Barometer
 - (C) Thermometer
 - (D) Wind Vane
4. What does a wind vane measure?
- (A) Wind Direction
 - (B) Wind Duration
 - (C) Wind Speed
 - (D) Wind Velocity
5. What is a northern wind ?
- (A) Blows away from the south
 - (B) Blows towards the north
 - (C) Comes from the north
 - (D) Heads towards the north
6. Which of the following is the method used by weather forecasters to tell us how much colder the wind makes unprotected skin feel?
- (A) Heat index
 - (B) Minimum temperature
 - (C) Wind chill temperature
 - (D) Wet-bulb temperature
7. What is the wind chill temperature on a -2°C day if the wind speed is 40 km/hr?
- (A) -10°C
 - (B) -2°C
 - (C) 2°C
 - (D) 10°C

PART B: WRITTEN RESPONSE

8. (A) Give an example of why knowing the forecast of wind is important? [1]

- (B) Why does wind make the actual temperature feel colder? [1]

- (C) What can you do to reduce the effect of wind chill? [1]
