

## Meteorology

- Q1. Lowest layer of atmosphere is.....
- a) **Troposphere**                      b) Tropopause                      c) Stratosphere
- Q2. Height of tropopause at equator is .....
- a) 10-12 Km                      b) **16-18 Km**                      c) 12-14Km
- Q3. Height of tropopause at poles is .....
- a) 12-14Km                      b) 12-13 Km                      c) **08-10 Km**
- Q4. CO<sub>2</sub> and H<sub>2</sub>O keep the atmosphere .....
- a) **Warm**                      b) Cold                      c) Have no effect
- Q5. Noctilucent clouds occur in .....
- a) Thermosphere                      b) **Mesosphere**                      c) Stratosphere
- Q6. Temperature at 2 Km is 05<sup>0</sup> C. What is ISA deviation .....
- a) -05<sup>0</sup> C                      b) -02<sup>0</sup> C                      c) **03<sup>0</sup> C**
- Q7. Pressure at MSL is 1002.25 hPa. Find the ISA deviation.
- a) **-11 hPa**                      b) 10 hPa                      c) 12 hPa
- Q8. In a high pressure area, winds are .....
- a) Normal                      b) Strong                      c) **Weak**
- Q9. Flying from low to high an altimeter would read .....
- a) Over                      b) **Under**                      c) Constant
- Q10. Isallobars are lines of equal .....
- a) Pressure                      b) Temperature Tendency                      c) **Pressure Tendency**
- Q12. What kind of a barometer is an altimeter .....
- a) **Aneroid**                      b) Mercur                      c) Alcohol
- Q13. A region between two highs and two lows is .....
- a) Depression                      b) Secondary low                      c) **Col**
- Q14. Bad weather and better visibility is associated with .....
- a) High                      b) **Low**                      c) Col

- Q15. The relationship between height and pressure is made use in construction of .....
- a) **Altimeter**      b) ASI      c) VSI
- Q16. Warmer the earth ..... will be the Nocturnal
- a) **Intense**      b) Weaker      c) Moderate
- Q17. Heat is the ..... of the KE of all the molecules and atoms of a substance:
- a) **Sum total**      b) Average
- Q18. The solar radiation consists of about 46% .....
- a) UV      b) **IR**      c) Visible
- Q19. The total energy radiated by a black body is proportional to its temperature (T):
- a)  $T^2$       b)  $T^3$       c)  **$T^4$**
- Q20. Intense radiation is emitted by .....
- a) **Hot bodies**      b) Cold bodies      c) Stars
- Q 21. The wave length of most intense radiation is inversely proportional to it's .....
- a) **Absolute temperature**      b) Humidity      c) Albedo
- Q 22. Hot bodies (like Sun) radiate .....
- a) **Short waves**      b) long waves      c) Both
- Q23. If  $ELR = SALR = DALR$  the atmosphere is:
- a) Stable      b) Unstable      c) **Indifferent**
- Q24. DALR means:
- a) **The rate at which temperature of unsaturated parcel of air falls with height when made to ascend adiabatically**
- b) The rate at which temperature falls with height
- c) the rate at which ascending parcel of saturated air cools
- Q25. The surface air temperature is  $30^{\circ}C$ . Assuming DALR prevailing what is the temperature at 2 Km:
- a)  $18^{\circ}C$       b)  **$10^{\circ}C$**       c)  $42^{\circ}C$

Q26. An isothermal atmosphere is:

- a) **Stable**                      b) Unstable                      c) Neutral

Q27. If environmental lapse rate (ELR) is less than SALR, that part of the atmosphere is said to be:

- a) **Absolutely stable**   b) Conditionally unstable   c) absolutely unstable

Q28. DALR is approximately:

- a)  $5^{\circ}$  C /Km                      b)  $15^{\circ}$  C /Km                      c)  **$10^{\circ}$  C /Km**

Q29. SALR at mean sea level is about:

- a)  $10^{\circ}$  C /KM                      b)  **$5^{\circ}$  C /Km**                      c)  $5^{\circ}$  F /Km

Q30. SALR approaches DALR:

- a) At  $0^{\circ}$  C                      b) At  $-15^{\circ}$  C                      c) **At  $-40^{\circ}$  C**

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