

1. Runway Visual Range (RVR) is accurately computed / calculated using:

- a) Atmospheric transmissivity and intensity of runway lights
- b) Background luminance and intensity of runway lights
- c) Atmospheric transmissivity and intensity of runway lights and background luminance

Ans: c

2. Fog formation is likely when relative humidity is:

- a) 20% and wind speed is 15 kts.
- b) 100% and wind speed is 3 kts.
- c) 100% and wind speed is 25 kts.

Ans: b

3. Radiation fog is formed when:

- a) Warm air moves over a cold surface
- b) Night time cooling of air near earth surface takes place
- c) Cold dry air moves over warm surface

Ans: b

4. The type of icing that can form on the surface of an aircraft when super cooled fog drifts on an aircraft parked on ground, is called:

- a) Rime
- b) Gaze ice
- c) Hoar frost

Ans: a

5. Radiosonde is used to determine:

- a) The amount of low cloud over a station
- b) The winds at various pressure levels
- c) The temperature and humidity at various pressure levels

Ans: c

6. During the pre-monsoon season top of CB cloud over NE India may reach upto:

- a) 16 to 18 kms
- b) 3 kms
- c) 1.5 kms

Ans: a

7. Altostratus clouds generally form over India in the altitude range:

- a) Below 2 kilometers
- b) Between 3 and 4 kilometers
- c) Between 6 to 10 kilometers

Ans: b

8. CAVOK is a term used in METAR/SPECI when:

- a) Visibility is 5 km due to fog
- b) Visibility is more than 10 km, no clouds below 1500 m or below the highest minimum sector altitude and no cumulonimbus and there is no significant weather phenomenon
- c) No clouds but visibility is 6 km

Ans: b

9. TAF VABB 240020Z 240312 25015G 25 KT 8000 SCT025 BKN090 TEMPO 0812 3000 TSRA SCT025CB OVC080

Deterioration in visibility is expected due to:

- a) Heavy thunderstorm and rain
- b) Moderate thunderstorm and rain
- c) Thunderstorm and rain

Ans: c

10. Tropical Easterly Jet (TEJ) is normally observed over Indian region during –

- a) Pre monsoon season
- b) Winter season
- c) Monsoon season

Ans: c

11. When parcel of air is subjected to change in an ensemble in such a way that no heat is allowed to go in or out of the system, the process is called:

- a) Isobaric
- b) Isothermal
- c) Adiabatic

Ans: c

12. When the isobars on a weather map are widely separated, it means that:

- a) The pressure gradient is strong
- b) The winds are relatively strong
- c) The winds are relatively weak

Ans: c

13. What is the affect of coriolis force to winds in northern hemisphere:

- a) Forces gravity to pull winds towards surface of the earth
- b) Turns winds to the right of the flow
- c) Forces air to be uplifted in the atmosphere

Ans: b

14. Jet stream is associated with following weather phenomena potentially hazardous to aviation:

- a) Heavy rain
- b) Lightening
- c) Clear air turbulence

Ans: c

15. In atmosphere the conditional instability exists when:

- a) $SALR < ELR < DALR$
- b) $ELR < SALR < DALR$
- c) $ELR < DALR < SALR$

Ans: a

16. SIGMET messages are issued by:

- a) All class I meteorological offices
- b) Regional meteorological centers
- c) Meteorological watch offices

Ans: c

17. METAR VABB 012340 Z 27012G22 KT 2000 + SHRA FEW008 SCT020 BKN 080
FEW025CB 25/24 Q1006 TEMPO 0800 + TSRA

The date and time of the report of VABB metar is:

- a) 1st of the month, 2340 UTC
- b) 12th of the month, 0340 UTC
- c) 1st of the month, 2340 IST

Ans: a

18. A standard pressure level of 500 hPa roughly corresponds to an altitude of:

- a) 10,000 ft
- b) 18,500 ft
- c) 5,000 ft

Ans: b

19. Weather systems that normally form during SW-monsoon season is:

- a) Western disturbance
- b) Cyclonic storm
- c) Depression

Ans: c

20. METAR includes the met, elements of:

- a) Upper wind, temperature and en-route weather
- b) Surface wind, visibility, weather, cloud, temperature and pressure
- c) Surface wind, visibility, weather and en-route weather

Ans: b