

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 148667

Roll No.

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B.TECH.

Theory Examination (Semester-VI) 2015-16

METEROLOGY

Time : 3 Hours

Max. Marks : 100

Section-A

Answer all parts in short.

All Parts carry equal marks.

1. (a) What are ozone hydrometers ? (10×2=20)
- (b) What are dust storms ?
- (c) Define humidity.
- (d) Define Pressure.
- (e) Define Temperature.
- (f) What are cyclones.
- (g) Define Gradient wind.

- (h) Define cloud visibility.
- (i) Define Dust storm.
- (j) Define local winds.

Section-B

2. Answer any five parts : (5×10=50)

- (a) What are the various Met services for Aviation. Explain the working of Met forecasting office.
- (b) What preflight information is required by pilot before flying of aircraft.
- (c) What is the difference between :
 - (i) Smoke haze and dust haze
 - (ii) Atmospheric and Latent stability instability.
- (d) What is precipitation. How are clouds formed.
- (e) What is atmosphere obscuration ? Describe about visibility in atmosphere.
- (f) Outline the movement and properties of air masses ? What are western disturbances.

- (g) What is the structure of thunderstorms ? Describe the flying hazards in thunderstorms ?
- (h) What is Ice Accretion ? What are the Precautions and remedial measures against Ice Accretion.

Section - C

Answer any two parts :

(2×15=30)

3. What are mountain waves ? What is the difference between seasonal and diurnal variations.
4. What are Aeronautical reports and forecasts ? How do they help during take off and landing of Aircraft.
5. Write short notes on three of the following
- (i) Rainfall pattern
 - (ii) Engine icing
 - (iii) Sonic Boom
 - (iv) Ozone Hydrometers
 - (v) Conditional stability

