

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

Paper ID :148663

Roll No.

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B. TECH.

Theory Examination (Semester-VI) 2015-16

AIR NAVIGATION

Time : 3 Hours

Max. Marks : 100

Note: Attempt all parts. All parts carry equal marks.

Section-A

Answer the parts in short.

(10×2=20)

1. (a) Define VOR.
- (b) Define ADF.
- (c) Define Latitude.
- (d) What are weather charts ?
- (e) What is chart projection ?

- (f) What are Isoclinic lines ?
- (g) What is Tracking ?
- (h) What is Double drift ?
- (i) What is a Radar ?
- (j) What is Astronomy ?

2. Answer any five parts.

(5×10=50)

- (a) What is the difference between Gnomonic projection and stereographic projection.
- (b) Describe the classification of frequency bands.
- (c) What are the basic problems in “dead reckoning ?”
- (d) Describe the various radio and radar aids used on aircrafts.
- (e) What is the role of communication in Air Navigation ?

(f) Explain the following :

(i) off course corrections

(ii) climb and descent

(g) Describe the following :

(i) Terrestrial Magnetism

(ii) Resolution of P, Q, and R components

(h) What is the role of Air Traffic control in Navigation of Aircrafts ?

Section-C

UPTU NOTES

Answer any two of the following.

(2×15=30)

3. Describe the working and uses of Rate of climb Indicator.

4. Describe the principles of radio transmission and reception.

5. Write short notes on any three of the following :

- (i) ILS
- (ii) Off course correction
- (iii) Electromagnet waves
- (iv) Local Hour Angle (LHA)
- (v) Chart reading

