

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Aeronautical Engineering, Mid semester Examination

Semester: 4th
Subject Code: 03613259
Subject Name: Basic Avionics

Date: (24/01/2023)
Time: (1hr: 30min)
Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

Q.1	Answer any six out of Ten. (2 Marks Each)	(12)	CO/PO	Bloom's Taxonomy
	1. Give the full name of VOR with frequency ranges.		CO2	Knowledge
	2. Give the full name of NDB with its location in aircraft.		CO 2	Knowledge
	3. What is regulatory authority of India?		CO 1	Knowledge
	4. Explain the function of IATA with full name.		CO 1	Understand
	5. Give the full name of ADF and its location in aircraft.		CO 2	Knowledge
	6. Who runs the airports in India? Give its full name with it's headquarter.		CO 1	Knowledge
	7. Give the full name of AWR and its location in aircraft.		CO 2	Knowledge
	8. Give the full name of ICAO and DGCA.		CO 1	Knowledge
	9. What is regulatory authority of USA and give its full name.		CO 1	Knowledge
	10. What is regulatory authority of European Union and give its full name.		CO 1	Knowledge
Q.2	A) Explain the working and importance of regulatory authority of India	(03)	CO1	Understand
	OR			
	A) Enlist the various navigation instruments in aircraft.	(03)	CO2	Analyze
	B) Give the full name of RADAR and explain principal.	(03)	CO1	Understand
	OR			
	B) What are the various components of electrical system in aircraft?	(03)	CO1	Knowledge
	C) What is avionics? Explain Briefly.	(04)	CO1	Knowledge
	OR			
	C) What are the various types of batteries used in aircraft?	(04)	CO3	Knowledge
	D) Give the full name of GPS and explain its working.	(04)	CO1	Understand
Q.3	A) Give the basic principle of Navigation	(03)	CO2	Understand
	OR			
	A) What is avionics? Explain briefly.	(03)	CO1	Knowledge
	B) What is autopilot and flight management system?	(03)	CO1	Knowledge
	OR			
	B)Short Note : VOR	(03)	CO2	Analyze
	C) Explain the ILS with its components.	(04)	CO2	Understand
	OR			
	C) Explain the function of NDB with ADF.	(04)	CO2	Understand
	D) Dive short note on DME	(04)	CO2	Analyze