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Question Paper Code: 39513

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Elective

Electronics and Instrumentation Engineering

01UEI913 - APPLICATION OF INSTRUMENTATION IN AEROSPACE AND
NAVIGATION

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks s

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Compare TAS and EAS.
2. What is rate of climb?
3. Name any four navigation system.
4. What is meant by emergency locator transmitter?
5. What is stabilization control?
6. What is Star tracker?
7. Define ply rating.
8. Define AFCS.
9. What do you mean by purging the system?
10. What is trouble indicator light?
11. What is bungee cylinder?

12. What is rate of climb?
13. Name any four navigation system.
14. What is meant by emergency locator transmitter?
15. What is stabilization control?

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. How are the gyroscopic properties utilized in Flight instruments. (10)
17. With neat diagram, Describe the principle of VHF automatic radio direction finder. (10)
18. What is GPS? How GPS plays a major role as a navigational aid. (10)
19. Draw the functional block diagram of aircraft flight simulator. Explain the operation of the system. (10)
20. Explain in detail about the measurement of fuel quantity by weight technique. (10)