

Type: DES

Q1. What are the various types of airfoils? Explain each in brief (2)

Q2. Explain the display used in modern cockpits. (3)

Q3. Draw and explain pitot static system in detail. (5)

Q4. Briefly explain the three operating modes of Flight Management Systems. (2)

Q5. Give the block diagram and functioning of a typical weather RADAR system (3)

Q6. Derive RADAR equation from fundamentals (5)

Q7. What are the various radio navigation techniques? (2)

Q8. Explain the working principle of GPS with necessary diagrams (3)

Q9. Explain the working principle of VOR with all necessary diagrams. (5)

Q10. What are the characteristics of microwave landing system? (2)

Q11. How Differential GPS helps in aircraft landing? Explain. (3)

Q12. Explain the working principle of Instrument Landing System with all necessary diagrams (5)

Q13. What is the use of ACARS System? (2)

Q14. What are the major characteristics of ARNIC 429? (3)

Q15. Explain MIL-STD1553 with necessary diagrams. (5)