

Roll No.					Total No. of Pages: 0
					1010111010110101

Total No. of Questions: 09

B.Tech.(Aerospace Engg.) (Sem.-8) **AEROSPACE QUALITY ASSURANCE**

> Subject Code: ASPE-401 M.CODE: 72564

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.

SECTION-A

- Lilies Ranker. 1. **Explain the following terms and their importance:**
 - a) Concession and deviation
 - b) Sampling risk
 - c) Benchmarking
 - d) Concept of variation
 - e) Self-inspection
 - f) Failure patterns
 - g) Zero defect analogy
 - h) Early warning concept
 - i) CMM
 - j) Quality culture



SECTION-B

- 2. Explain the procedure to maintain quality assurance during repair of an aircraft.
- 3. Explain various quality concepts briefly.
- 4. Explain how you predict reliability during design.
- 5. Explain various rules of thumb for sampling.
- 6. How continuous process regulation affects quality control?

SECTION-C

- 7. Explain the following quantitative methods for summarizing data:
 - a) Exponential probability distribution
 - b) Poisson distribution
 - c) Normal Curve
- 8. What do you understand by 'design assurance'? Explain the following concepts with respect to 'design assurance'.
 - a) Design for time oriented performance
 - b) Design for safety
 - c) Design for basic function requirement
- 9. Write notes on the following:
 - a) FMECA
 - b) Fault tree analysis

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 M-72564 (S2)-2555