

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Aerospace Engg.) (2012 Batch) (Sem.-7,8)

**AEROSPACE QUALITY ASSURANCE**

Subject Code : ASPE-401

Paper ID : [72564]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

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

**SECTION-A****Q1 Attempt the following questions :**

- a) What do you mean by '*Production Permit*'?
- b) What are the units used to measure quality control?
- c) Explain the concept of '*Bench Marking*'.
- d) How self-inspection is carried out?
- e) What is the importance of field data?
- f) What is meant by quality culture?
- g) What is '*Regression Analysis*'?
- h) What do you mean by sample size? Explain its importance.
- i) What do you mean by '*Sampling Risk*'?
- j) What do you mean by quality audit?

### SECTION-B

- Q2 Write note on '*Quality Circles*'.
- Q3 How do you evaluate the parameters affecting field performance?
- Q4 Discuss the role of quality assurance during usage of aircraft.
- Q5 How quality is measured? Explain the role of quality director.
- Q6 How continuous process regulation affects quality assurance?

### SECTION-C

- Q7 Explain the concept of variation in quality assurance. List various quantitative methods for summarizing data and explain any two of them. (3,1,6)
- Q8 What do you mean by Design assurance? Discuss design assurance with respect to safety and time- oriented performance. (2,4,4)
- Q9 Write notes on the following : (2×5)
- a) Zero defect analogy
  - b) Quality Standards and ISO 9000