

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

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**Q.1 Attempt the following questions :**

- (a) Explain the concept of variation.
- (b) Explain the importance of 'Concession and Deviation'?
- (c) What do you mean by sample size? Explain its importance.
- (d) What do you mean by 'Sampling Risk'?
- (e) What do you mean by 'Production Permits'?
- (f) Explain the concept of 'Bench Marking'.
- (g) How self-inspection is carried out?
- (h) What is the use of field data?
- (i) What do you mean by quality standards?
- (j) What is 'Sampling Plot'?

SECTION-B

- Q.2 Discuss the role of quality assurance during usage of aircraft.
- Q.3 How Quality is measured? Explain the role of quality director.
- Q.4 Write note on 'Zero defect Analogy'.
- Q.5 How do you evaluate the parameters affecting field performance?
- Q.6 How continuous process regulation affects quality assurance?

SECTION-C

- Q.7 What do you mean by Design assurance? Discuss design assurance with respect to safety and time-oriented performance.
- Q.8 Explain the importance of concept of variation in quality assurance. List various quantitative methods for summarizing data and explain **any two** of them.
- Q.9 Write notes on the following :
- (a) FMECA
 - (b) Six Sigma

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.