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Total No. of Pages : 02

Total No. of Questions : 07

B.Tech. (Ind. Engg. & Mgt.) (Spl. in TQM) (Sem.-7)

ADVANCED QUALITY TOOLS

Subject Code : IEM-751

M.Code : 71698

Time : 3 Hrs.

Max. Marks : 40

INSTRUCTIONS TO CANDIDATES :

1. Attempt EIGHT out of TEN questions from SECTION-A carrying TWO marks each.
2. Attempt any FOUR out of SIX questions from SECTION-B carrying SIX marks each.

SECTION-A**Q1. Answer briefly :**

- a) Write the benefits of Advanced Quality Tools (AQT).
- b) Mention the applications of systematic diagram.
- c) List the steps in test of significance.
- d) What is the application of F- test?
- e) What is the need of Design of Experiment (DOE)?
- f) What is interaction assignment?
- g) Define sensitivity.
- h) What are session commands?
- i) What are interaction plots?
- j) How to create single and multiple variables graphs in MINITAB.

SECTION-B

2. Write the classification of Matrix diagram. Discuss its concept and write the common uses.
3. Elaborate the method of constructing the Arrow diagram with suitable example.
4. Discuss the statistical procedure for one-way ANOVA.
5. What do you understand by Full factorial experiments? Where such experimentation is required?
6. Discuss the different noise factors and their testing conditions.
7. Discuss the Pareto Analysis with suitable example.

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.