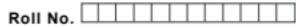


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Total No. of Pages : 02



Total No. of Questions : 16

B.Tech. (Ind. Engg. 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.
- Attempt any FOUR out of SIX questions from SECTION-B carrying SIX marks each.

SECTION-A

Answer briefly :

- Q1. Write the advantages of relation diagram.
- Q2. List the type of matrix diagram.
- Q3. What is the application of Chi-square test?
- Q4. Write the difference between one factor and several factor experiments.
- Q5. How to count the degree of freedom?
- Q6. Define signal to noise ratio
- Q7. List the different noise factors.
- Q8. Write the worksheet operations in MINITAB.
- Q9. What is the use of control charts?
- Q10. How to create single and multiple variables graphs in MINITAB?

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SECTION-B

- Q11. Elaborate the method of constructing the Affinity diagram with suitable example.
- Q12. Discuss the concept of process decision program chart and write its application.
- Q13. Discuss the statistical procedure for two-way ANOVA.
- Q14. Explain the three phases of Design of Experiment (DOE) process by taking a suitable example.
- Q15. With a suitable example discuss the procedure of selecting and using the orthogonal array.
- Q16. Differentiate between one-way and two-way ANOVA.

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.

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