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B.Sc. DEGREE EXAMINATION, 2011
(DOUBLE DEGREE)
(OPERATIONS RESEARCH)
(PART – III -- PAPER–II)

720. STATISTICAL QUALITY CONTROL

December)

(Time: 3 Hours

Maximum: 100 Marks

SECTION –A

(8×5=40)

Answer any EIGHT questions

1. Explain the need for quality assurance.
2. What is meant by zero degree?
3. Distinguish between chance causes and assignable causes.
4. Write a note on panel charts.
5. Mention the merits of R-Chart.
6. What do you mean by panel charts? State their advantages.
7. Describe the role of acceptance sampling in quality assurance.
8. State the characteristics of OC curve.
9. Explain the merits of single sampling plans.
10. Write a note on non-probability sampling.

SECTION – B

Answer any THREE questions

(3×20=60)

11. a) Write an explanatory note on Quality circle.
b) State the advantages of statistical Quality Control.
12. a) Explain in detail attribute control charts.
b) What is meant by process control? State the importance of process control.
13. a) Discuss the basis for the construction of \bar{X} and R charts.
b) What is the importance of product control? Also state its advantages.
14. a) What are relative merits of acceptance of sampling by attributes and by variables?
b) How would you obtain the OC curve of a variable sampling plan?
15. a) Explain the method of obtaining AOQL for a single sampling plan by attributes.
b) Write an explanatory note on Double sampling plan.

