BSc DEGREE EXAMINATION MAY 2017 \ *A S V (J [7*
(Fifth Semester)

Branch- **STATISTICS**

STATISTICAL QUALITY CONTROL - I

Time : Three Hours   Maximum : 75 Marks

SECTION-A (20 Marks)
. Answer **ALL** questions
ALL questions carry **EQUAL** marks   (1 0 x 2 = 20)

1   Define quality control.
2   Define process capability.
3   What is double sampling plan?
4   Define consumer risk.
5   State any two limitations of acceptance sampling for variables.
6   Write the expression for n and k of unknown sigma plan.
7   What are the three types of inspection?
8   Write any two advantagesof sequential sampling plan.
9   Define JIT.
10   What are the objectives of JIT?

SECTION - B (25 Marks)
Answer **ALL** Questions
' **ALL** Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Distinguish between quality of design and quality of conformance.
OR
b What are the benefits of SQC?

12 a What is ASN? Explain the method of calculation for single sampling
plan.
OR
b Differentiate between AQL and AOQL.

13 a State the advantages of acceptance sampling for variables.
OR
b Write the assumptions of acceptance sampling for variables.

14 a Explain the concept of normal and reduced plans.
OR
b Find ASN function for sequential sampling plan.

15 a Describe the elements of JIT in brief.
OR
b Explain the concept of six sigma.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16   Explain the concept of process control and product control.

17   What is O.C curve? Explain the characteristics of O.C. Curve.

18   Derive n and K for known sigma single sampling plan.

19   Obtain OC curve for sequential sampling plans.

20   Describe the rules for Kanban operation.

Z-Z-Z   END