# MSc DEGREE EXAMINATION MAY 2018
## (Eighth Semester)

## Branch –SOFTWARE SYSTEMS
### (Five year integrated)

### CORE ELECTIVE-II : SOFTWARE QUALITY ASSURANCE & SOFTWARE TESTING

Time: Three Hours                                        Maximum: 75 Marks

### SECTION -A (30 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks          (5 x 6 = 30)

1 a   What is Quality Management System and Quality Policy in an organization? Explain.

OR

  b   Briefly explain the content of the software quality assurance plan.

2 a   State and explain various models for software product quality.

OR

  b   What is software maintenance? Explain its metrics.

3 a   Explain the importance of ISO certification. How does an organization get ready for ISO certification?

OR

  b   Write a note on six sigma and its essentials.

4 a   Describe the purpose of testing and differentiate inspection and testing.

OR

  b   Explain requirement based testing with examples.

5 a   Write a short note on system testing and its different types.

OR

  b   Explain the significance of ad hoc testing.

### SECTION -B (45 Marks)
Answer any THREE questions
ALL questions carry EQUAL Marks          (3 x 15 = 45)

6   Compare Quality Control and Quality Assurance. How is Quality assurance done at each phase of SDLC?

7   Outline the procedure for measurement during software life cycle. What are defects metrics?

8   Explain the role of ISO consulting services and consultants.

9   Explain the V-model for testing phases.

10   Examine the role of coverage and control flow graphs in testing.

Z-Z-Z                                        END