M.C.A. / SEM V (CBSGS)   NOV/DEC '16

SOFTWARE QUALITY ASSURANCE

QP CODE : 517002

[Total Marks : 80]

(3 Hours)

N.B. : 1) Question No.1 is **compulsory**.
        2) Attempt any **four** from the remaining **six** questions.

1. (a) What are the four P's focused on effective software project (10) management? Explain.
   (b) Explain the need for quality standards and Differentiate ISO- 9001 (10) and CMM standards.

2. (a) Discuss in detail SQA Plan and task. (07)
   (b) Explain Isikawa's 7 basic tools of quality in details (08)

3. (a) Explain McCall model for software quality. (07)
   (b) Explain QFD its characteristics and its benefits (08)

4. (a) Explain Zero Defects with its principle and practices (07)
   (b) Explain FURPs and FURPS+ (08)

5. (a) Explain measures and metrics of software quality. (07)
   (b) Discuss in detail software configuration management with its (08) limitations

6. (a) Explain the elements of Quality Management System (QMS) for (07) software.
   (b) Explain Pareto Analysis and Seven run rule for quality (08)

7. Write Short Notes on **any three** :- (15)
   a) Statistical Quality Assurance
   b) Boehm hierarchical model
   c) Six Sigma
   d) Glib's Approach