Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

BMCI (2014 & Onwards)   (Sem.–5)
SOFTWARE TESTING & QUALITY ASSURANCE
Subject Code : BMCI-503
M.Code : 74105

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. **Answer briefly :**

   a) Software reviews

   b) Regression testing

   c) Software product engineering

   d) Software maintainability

   e) Control flow structure

   f) Performance testing

   g) Defect tracking

   h) Function point

   i) Test drivers

   j) Interface testing

SECTION-B

2. What is software reliability? How it differ from quality?

3. What is verification and validation? How is it applicable in software testing?

4. Discuss defect detection and analysis. How is it useful in debugging?

5. Discuss test case design in object oriented testing with the help of suitable example(s).

6. Discuss white-box testing technique with its usefulness.

SECTION-C

7. What is black-box testing? Explain equivalence class partitioning with the help of suitable example for designing the test cases.

8. What is software measurement? Explain technical metrics for software with the help of suitable example(s).

9. Explain the following :

   a) ISO versus Six Sigma approach for software quality

   b) Software Quality Assurance

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.