FACULTY OF ENGINEERING

M.Tech (CSE-CSE) III-Semester (Main) (AICTE) Examination, March 2021

Subject : Software Quality and Testing

Time : 2 Hours   Max. Marks: 70

Note: i) First Question is compulsory and answer any Three questions from the remaining six questions.
ii) Answers to each question must be written at one place only and in the same order as they occur in the question paper.
iii) Missing data, if any may suitably be assumed.

1. Answer any Four question from the following   **(4 x 4 = 16 Marks)**
a) Define software quality assurance

b) List out the 4 models of Software Development process

c) Diagrammatically represent the process of defining software quality metrics

d) List out the   software testing techniques

e) Define CACTUS and list its components

f) What is a CASE tool?

g) Classify the Software configuration management tasks

2. a) Compare McCall's factor model and alternative models   9
    b) Write a note on software errors, faults, failures   9

3. a) Write a brief note on prototype model   9
    b) Write a note on Object Oriented Model with a flowchart   9

4. Explain in detail about the ISO 9000-3 Certification Process with   necessary diagrams   18

5. Explain in detail about the 11 step software testing process   18

6. a) Explain in detail about the testing of a Data Warehouse with necessary diagram   12
    b) Write a note on Java Testing Tool – Junit   6

7. Explain in detail about the various causes of software errors.   18

****