MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : CS-701

SOFTWARE ENGINEERING

Time Allotted : 3 Hours *Full Marks* : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : $10 \times 1 = 10$

i) The most important feature of spiral model is

a) Requirement analysis

b) Quality management

c) Risk mangement

d) Configuration management.

ii) To achieve good design, modules should have

a) Low coupling, low cohesion

b) Low coupling, high cohesion

c) High coupling, low cohesion

d) High coupling, high cohesion.

iii) Equivalence class partitioning is followed in

a) White box testing

b) Black box testing

c) Both (a) and (b)

d) None of these.

iv) Project planning does not include

a) Risk identification

b) Design

c) Cost estuation

d) Configuration Management.

GuessWork
(Correct if wrong)

v) A COCOMO model is

a) Common cost estimation model

b) Complete cost estimation model

c) Constructive cost estimation model

d) Comprehensive cost estimation model.

vi) Each time a defect gets detected and fixed, the reliability of a software product

a) decreases

b) increases

c) remains constant

d) cannot say anything.

vii) All critical path activities have slack time of

a) 0 b) 1

c) 2 d) None of these.

viii) Alpha and Beta testing are forms of

a) Acceptance testing

b) System testing

c) Integration testing

d) Unit testing.

ix) In function point analysis the number of adjustment factors based on system characteristics to refine unadjusted function point is

a) 12 b) 10

c) 20 d) 14.

x) CASE Tool is

a) Computer Aided Software Engineering

b) Component Aided Software Engineering

c) Constructive Aided Software Engineering

d) Computer Analysis Software Engineering.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following 3 × 5 = 15

2. Discuss the characteristics of a good SRS document.

3. Explain in detail the Capability Maturity Model (CMM).

4. What is the difference between black-box and white-box testings ?