Reg. No.

Credit Based Fifth Semester B.C.A. Degree Examination, April 2021
(Semester Scheme)
(Common to all Batches)
SOFTWARE ENGINEERING

Time : 3 Hours   Max. Marks : 100

Instruction : Answer **any ten** questions from Part-**A** and **one full** question
from **each** Unit of Part-**B**.

PART – A   (10×2=20)

1. a) Define software process.

   b) Give the IEEE definition of software and software engineering.

   c) Expand KDLOC and SEPG.

   d) What is a data dictionary ?

   e) What is requirements validation ?

   f) Define coupling and cohesion.

   g) What is detailed design ?

   h) What are design walkthroughs ?

   i) What is symbolic execution ?

   j) Define Fault and Failure.

   k) Define Test cases.

   l) Mention any two aspects of loadrunner.

PART – B
Unit – I

2. a) Explain the characteristics of software process.

   b) With the help of a diagram explain the working of the Waterfall Model.

   c) Write a short note on software problems.   (7+7+6)

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3. a) Explain software engineering problem.

   b) Explain the various phases of phased development process.

   c) Briefly explain the various activities of software configuration management.

   (6+8+6)

Unit – II

4. a) Explain the activities of requirement process with a diagram.

   b) Explain DFD with an example.

   c) List and explain different types of cohesion.

   (7+6+7)

5. a) Explain the components of an SRS.

   b) Explain structure chart with an example.

   c) Write a short note on SDM strategy.

   (7+6+7)

Unit – III

6. a) Explain various programming style.

   b) Explain the verification method of a detailed design.

   c) Explain internal documentation.

   (8+8+4)

7. a) Explain PDL with suitable example.

   b) Write short note on Logic/Algorithm design.

   c) Explain the concept of structured programming.

   (8+6+6)

Unit – IV

8. a) Explain equivalence class partitioning.

   b) Write a short note on adaptive maintenance and corrective maintenance.

   c) Write the important features of test director.

   (6+8+6)

9. a) Explain the test oracle with the help of a diagram.

   b) Explain the control flow based testing with the help of a diagram.

   c) Write a short note on skill testing.

   (6+8+6)