Reg. No. | | | | | | | | | |

BCACAC 311

Credit Based Fifth Semester B.C.A. Degree Examination, Nov./Dec. 2018
SOFTWARE ENGINEERING
(Common to all Batches)

Time : 3 Hours Max. Marks : 100

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

PART – A **(10×2=20)**

1. a) Give the IEEE definition of Software and Software Engineering.
   b) Expand KDLOC and SCM.
   c) What is a Module ?
   d) What are design walkthroughs ?
   e) What is Data Dictionary ?
   f) What is Data abstraction ?
   g) Define most abstract input and most abstract output.
   h) Define test case.
   i) Define Coupling.
   j) Define error and failure.
   k) What is Unit Testing ?
   l) Mention any two important aspects of WinRunner.

PART – B
UNIT – I

2. a) Explain Software Problems.
   b) Explain any three characteristics of software process.
   c) Explain the working of waterfall model with the help of a diagram. **(7+6+7)**

3. a) Explain different phases of phased development process.
   b) Explain the Spiral Model with the help of a diagram.
   c) Explain SCM life cycle of an item. **(8+7+5)**

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UNIT – II

4. a) Explain Data Flow diagram with an example.
   b) Explain the characteristics of SRS.
   c) Write a note on SDM strategy. **(6+7+7)**

5. a) Explain the components of SRS.
   b) Write a note on decision table.
   c) Define cohesion. Explain different types of cohesion. **(8+4+8)**

UNIT – III

6. a) Explain the verification methods of detailed design.
   b) Explain structured programming.
   c) Explain PDL with suitable example. **(8+5+7)**

7. a) Write a note on Logic/Algorithm design.
   b) Explain symbolic execution and execution tree.
   c) Explain the concept of information hiding. **(8+8+4)**

UNIT – IV

8. a) Explain control flow based testing.
   b) Write a note on adaptive and corrective maintenance.
   c) Write a note on Silk Test. **(6+8+6)**

9. a) Explain the Equivalence class partitioning.
   b) Explain data flow based testing.
   c) Write the important features of SQA Robot and LoadRunner. **(7+6+7)**
