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BCACAC 331

**Choice Based Credit System Fifth Semester B.C.A. Degree
Examination, February/March 2023
(2021 – 22 Batch Onwards)
SOFTWARE ENGINEERING (Group I)**

Time : 3 Hours

Max. Marks : 80

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

PART – A

1. a) Give IEEE definition of Software. (10×2=20)
b) What is Work Product ? Give examples.
c) Define software metrics ? Mention two types of software metrics.
d) List any two advantages of Time boxing model.
e) What is a data dictionary ?
f) What is abstraction ? Mention the types.
g) Define Stubs and Drivers.
h) What is internal documentation ?
i) State the differences between Unit testing and System testing.
j) What are test cases ?
k) What is Pairwise testing ?
l) Mention any two important features of Load Runner.

PART – B

Unit – I

2. a) Explain waterfall model with neat diagram. List the merits and demerits.
b) Explain different software engineering problems.
c) Explain any four desired characteristics of software process. (6+5+4)

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3. a) Explain iterative enhancement model. Mention its advantages.
b) List and explain different software problems.
c) Write a note on ETVX approach for process specification. **(6+5+4)**

Unit – II

4. a) Explain the Requirement process with neat diagram.
b) What is SRS ? Explain different components of SRS.
c) What is Coupling ? Explain. **(6+5+4)**
5. a) What is cohesion ? Explain any five levels of cohesion.
b) What is structure chart ? Explain its significance.
c) Write a note on Design Heuristics. **(6+5+4)**

Unit – III

6. a) List and explain common coding errors.
b) What is PDL ? Explain its features.
c) Explain different verification methods used to verify detailed design document. **(5+5+5)**
7. a) What is Logic and Algorithm design ? Explain.
b) List and explain general rules that can be applied for writing good code.
c) What is Static analysis ? Explain its significances. **(5+5+5)**

Unit – IV

8. a) Explain Cause effect graphing with the help of an example.
b) What is Test Oracle ? Explain with a diagram.
c) What is Boundary value analysis ? Explain. **(6+5+4)**
9. a) Define the following :
i) Error
ii) Fault
iii) Failure.
b) List and explain different levels of testing.
c) Write a note on Silk test. **(6+5+4)**
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