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BCMCAV 353

Credit Based VI Semester B.Com. Degree Examination, September 2022
(2020-21 and Earlier Batches)
COMPUTER APPLICATION (Vocational)
Paper – XI : Software Engineering

Time : 3 Hours

Max. Marks : 80

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

PART – A

1. a) Define Software engineering. (10×2=20)
b) Define Software process.
c) Mention the problems of Software engineering.
d) What are Throwaway and Evolutionary Prototyping ?
e) Mention any four types of cohesion.
f) What are work products ?
g) List the four major activities in SDM.
h) Define Code reading.
i) What is Internal documentation ?
j) What is Maintenance ?
k) Define fault and failure.
l) What are test cases ?

PART – B

Unit – I

2. a) Explain the phases in Software engineering approach. 8
b) Explain the iterative enhancement model. 7
3. a) Explain the prototype development model. 7
b) Explain the quality factors of software engineering. 8

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Unit – II

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| 4. a) What is SRS ? Explain the characteristics of an SRS. | 8 |
| b) Define coupling. List and explain the different levels of coupling. | 7 |
| 5. a) Write the structure of an SRS document. | 8 |
| b) What is DFD ? Explain the various symbols used in DFD with example. | 7 |

Unit – III

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| 6. a) Write a note on top-down and bottom-up approaches. | 4 |
| b) Define error. Explain common coding errors. | 5 |
| c) Write a note on : i) Information Hiding ii) PDL. | 6 |
| 7. a) Explain any two detailed design verification methods. | 5 |
| b) Explain the general rules for software programming style. | 5 |
| c) Explain the Logic/Algorithm design techniques. | 5 |

Unit – IV

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| 8. a) Explain cause effect graph based testing with examples. | 9 |
| b) Explain preventive, adaptive and corrective maintenance of software. | 6 |
| 9. a) Explain black-box and white-box testing. | 5 |
| b) Explain equivalence class partitioning and boundary value analysis. | 10 |
