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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**

- 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**

- 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**

- 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**

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