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Dec.-22-0222

CS-505 Software Engineering (CSE, IT)

B.Tech. 5th (CBCS)

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt Five questions in all, selecting one question from each Section A, B, C, and D. Section E is compulsory. Write suitable comments wherever necessary. Assume data wherever necessary.

SECTION - A

1. Draw spiral model for software development. Explain its each phase in detail. How it differs from other development models? (12)
2. (a) Write characteristic of good software requirement specifications. (6)
- (b) Explain various methods for requirement gathering. (6)

SECTION - B

3. (a) What is the role of monitoring and control phase of software project management? (6)
- (b) What is risk management? (6)
4. What is scheduling? Discuss various charts used for scheduling. Also, compare the features of scheduling charts. (12)

SECTION - C

5. (a) How software configuration management takes place? (6)

- (b) What is SEI capability maturity model (CMM)? (6)
6. (a) How stress testing can be performed? (6)
- (b) What is non execution-based testing? Explain with example. (6)

SECTION - D

7. (a) Discuss various maintenance activities. (6)
- (b) Illustrate the role of reverse engineering with appropriate example. (6)
8. (a) Explain Agile manifesto and principles. (6)
- (b) What is Agile project management? (6)

SECTION - E

9. Short answer type questions:-
 - (a) Why software engineering is an engineering discipline? (6)
 - (b) Specify the significance of prototype model over other development models. (6)
 - (c) Why feasibility study is required? (6)
 - (d) Differentiate between structured and functional testing. (6)
 - (e) Define software reuse concept. (6)
 - (f) What is extreme programming? (6×2=12)