

**D-180283**

**B. Tech. EXAMINATION, 2018**

**Semester V (CBS)**

**SOFTWARE ENGINEERING (CSE, IT)**

**CS-505**

**www.epaper.tk**

*Time ; 3 Hours*

*Maximum Marks : 60*

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

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

**Section A**

1. Elaborate all the phases in sequence for developing software using spiral model. What are pros and cons of using this model ? 12

2. (a) Why requirement specification is known as crucial process step ? Explain. 6
- (b) Describe in detail the characteristics of a good SRS. 6

### Section B

3. Write a detailed note on the project feasibility study, various types of feasibilities and their importance. 12
4. Explain in detail how COCOMO model can be used for organic systems. 12

### Section C

5. Explain PSP in detail. Illustrate how it helps in improving the quality by taking one example. 12
6. (a) Compare and contrast white box and black box testing. 6
- (b) Write notes on the following :  $3 \times 2 = 6$
- (i) Acceptance testing
  - (ii) Security testing.

## Section D

7. (a) Describe software reuse. What are basic issues in software reuse ? 6
- (b) Write notes on the following :  $3 \times 2 = 6$
- (i) Planning for maintenance
  - (ii) Types of maintenance.
8. (a) Describe Agile Project Management. 6
- (b) Write a detailed note on extreme programming. 6

## Section E

9. Short Answer Types Questions :
- (a) Differentiate between analysis and design.
  - (b) Write a short note on need of software engineering.
  - (c) Describe any *one* tool that can be used for project scheduling.
  - (d) What is the salient feature of ISO 9000 quality standard ?
  - (e) Write a note on testing of real time system.
  - (f) What is Client Server Software ?  $2 \times 6 = 12$