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Total Pages : 03

**D-180283**

**B. Tech. EXAMINATION, 2018**

Semester V (CBS)

SOFTWARE ENGINEERING (CSE, IT)

CS-505

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*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 : 3×2=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 : 3×2=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 ? 2×6=12