

Roll No .....

**CS-6003 (CBGS)**

**B.E. VI Semester**

Examination, May 2019

**Choice Based Grading System (CBGS)**

**Software Engineering and Project Managements**

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Distinguish between generic and customized software products. Which one would generate more revenue for a company? Give the reasons behind your answer.  
b) What do you mean by software process? What is the difference between a methodology and a process? Explain using suitable example.
2. a) Discuss the various phases of linear sequentist model. Write down its advantages and disadvantages.  
b) How are the abstraction and decomposition principles used in developing a good software requirement specification.
3. a) List five desirable characteristics of a good Software Requirement Specification (SRS) document.  
b) Discuss the relative advantages of formal and informal requirement specifications.
4. a) What do you understand by the term top down decomposition in the context of function oriented design? Explain your answer using suitable example.

- b) How can you specify different constructions on the modelling elements in UML?
5. a) What are the different relationships test may exist among classes in an object oriented design? Give example of each.  
b) Differentiate between cohesion and coupling.
6. a) Discuss different types of code reviews. Explain when and how code review meetings are conducted.  
b) What is the difference between black box testing and white box testing. <http://www.rgpvonline.com>
7. a) How do you compute the cyclomatic complexing of a program? How is cyclomatic complexing useful in program testing?  
b) Discuss the salient features of the organization reporting structure of the SQA group a recommended by SEI CMM and ISO 9000.
8. a) Explain how COCOMO 2 estimation model differs from the original COCOMO model.  
b) Write short notes:
  - i) Reverse engineering
  - ii) Software Configuration Management (SCM)

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