

Roll No

CS-603 (GS)**B.E. VI Semester**

Examination, May 2018

Grading System (GS)**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) With a neat diagram, explain the water-fall model of software development process. 7
b) Define software prototyping. What are prototyping approaches in software process? 7
2. a) Explain functional and non-functional requirements. 7
b) Discuss the functional and behavioral models for software requirement process. 7
3. a) Compare and contrast the relative advantages of object oriented and function oriented approaches to software design. 7
b) What are the characteristics of a good user interface design? Describe how UID may be developed for a data acquisition system. 7

4. a) Explain the various coupling and cohesion methods used in software design. For each type of coupling give an example of two components coupled in that way. 7
b) Discuss the various black box and white box testing techniques. Use suitable example for your explanation. 7
5. a) What is boundary value analysis? Explain the technique specifying rules and its usage with the help of an example. 7
b) Explain in detail about software architecture design, with emphasize on fan-in, fan-out, coupling, cohesion and factoring. 7
6. a) Illustrate with an example about project scheduling and its methods in detail. 7
b) Explain the role of management in software development with the help of examples. 7
7. a) What is Software maintenance? State the activities of re-engineering process. 7
b) What is Configuration Management? State the four activities of configuration management. 7
8. Discuss the following process models and write their advantages and disadvantages. 14
a) Spiral Model
b) Rapid application development model
