

Roll No .....

**IT - 605 (GS)**

**B.E. VI Semester**

Examination, December 2017

**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) Define Software Engineering. Explain Software Engineering: A layered technology. 7
- b) Explain the process model that couples the iterative nature of prototyping with the controlled and systematic aspects of the waterfall model. 7
- 2. a) What do you mean by software measurement? Explain Size-oriented metrics with example. 7
- b) Describe the process of risk analysis and management. 7
- 3. a) Explain the following : 7
  - i) Cohesion
  - ii) Coupling
- b) Describe any two software cost estimation techniques. 7
- 4. a) Define design engineering and explain the design concepts. 7
- b) State the Project Scheduling Principles. Mention and elaborate on the relationship between "People" and "Effort". 7

- 5. a) Brief the "golden rules" of user interface design. 7
- b) Differentiate between top-down and bottom-up design strategies. 7
- 6. a) Draw object oriented design pyramid and explain. 7
- b) What is integration testing? Discuss about the various approaches of integration testing. 7
- 7. a) Explain about the software testing strategies. What are the different types of system testing. 7
- b) What is SQA? Discuss about the activities of SQA. 7
- 8. a) What are the different activities involved in software project planning? Explain each in detail. 7
- b) Define Scheduling of Project and how task network helps in scheduling. 7

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