

IT - 605**B.E. VI Semester**

Examination, June 2017

Software Engineering and Project Management*Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) List the major differences between the exploratory and modern software development practices? 7
b) What are the symptoms of the present software crisis? What factors have contributed to the making of the present software crisis? 7
2. a) What are the major phases of waterpil model of software development? Which phase consume the maximum effort for developing a typical software product? 7
b) Explain how you can choose the best risk reduction technique when there are many ways of reducing a risk. 7
3. a) What are the different categories of software development project according to cocomo estimation model? Give examples of software product development projects belonging to each of there categories. 7
b) Give a brief note on Reverse Engineering. 7

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4. a) Discuss the relative advantages of formal and informal requirements specification. 7
b) How would you improve a software design that display a very low cohesion and high coupling? 7

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5. a) What do you understand by top down decomposition in the context of function-oriented design? Explain your answer using a suitable example. 7
b) What do you understand by design review? What kinds of mistakes are normally pointed out by reviewers? 7
6. a) Explain differences between an architectural pattern a design pattern and an idiom in the context of object oriented software development. 7
b) What is the difference between black box testing and white box testing? 7
7. a) Discuss different types of code reviews. Why code review is considered to be the best ways to remove error from code composed to testing? 7
b) Why is it necessary for a project manager to decompose the tasks of a project using WBS? To what granularity level the tasks are decomposed? Explain your answer. 7
8. Write short note: 14

- a) Re-Engineering
- b) Forward Engineering
- c) Staffing
- d) SCM Activities.

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