

05-05-2014 S-2 Mehka Gogwani

National Institute Of Technology, Hamirpur (HP)
Computer Science & Engineering Department
End Semester Examination

Roll no.....

Branch	CSE	Semester	6 th
Course Name	Software Engineering	Course code	CSD-321
Time	3 Hrs	Maximum Marks	60

Note: All Questions are compulsory. Non Programmable calculator is allowed.
Assume necessary data if something missing.

Q1 Explain any four types of CASE tools with examples? List the advantages of using these tools in software development. [5]

Q2 a): Elaborate code verification also discuss its role in ensuring the correctness of a software implementation.

b) What is the essence of code review process? Explain its types. [2*5=10]

Q3: What is meant by the term coupling in the context of software design? Is it true that in a good design, the modules should have low coupling, why? [5]

Q4: Present a brief outline of the hierarchical structure of the Capability Maturity Model (CMM) and give examples of at least two key process areas for level 3. [5]

Q5 a): What are the main advantages of using an object oriented design methodology over a function oriented approach?

b): Write short notes on:

- Defect removal efficiency
- Component and connector view

[2*5=10]

Q6: What do you understand by software configuration management? What problems would you face if you are developing several versions of the same product according to a client's request, and you are not using any configuration management tools? [5]

Q7: Why is project monitoring and tracking important? Explain the various techniques of monitoring the progress of a project. [5]

Q8 a): Elaborate the various problems which an organization will face if it does not develop a SRS document.

b): Suppose that a project was estimated to be 600 KLOC. Calculate the effort and development time for each of the three modes, i.e. organic, semidetached, embedded.

[2*5=10]

Q9: What are the characteristics to be considered for the selection of a life cycle model? [5]