

TE-VI | I.T/S/W Engg/VI/CBGS | 16-05-2017

Software Engg

Q. P. Code: 13499

Time 3 hours



Marks 80

Note: Question No. 1 is Compulsory  
Attempt any 3 questions from the remaining questions.

Q.1

20

- a) Explain software process framework
- b) Explain Aspect oriented development
- c) Elaborate on principles that guide process and practice
- d) What is metric? Explain project and process metrics.

Q.2

- a) What is evolutionary model? Compare prototype and spiral model 10
- b) Explain agility principles. Explain XP agile development process 10

Q.3

- a) What is the need of creating models? Explain modeling principles 10
- b) Explain requirements engineering activities. In which requirements engineering activity you will consider stakeholders. 10

Q.4

- a) Explain design concepts. What is coupling and cohesion? What is expected more? Why 10
- b) What is quality? Explain McCall's Quality Factors. List six quality attributes for ISO 9126 10

Q.5.

- a) Differentiate between 10
  - i. Validation and Verification ii. White box and Black box iii. Alpha and Beta
- b) Draw control flow graph, find independent paths, cyclomatic complexity and design test cases for the following PDL 10
  - if(c1 or c2)
  - while(c3) s1;
  - else
  - do s2; while(c4);
  - s3;

Turn Over

Q.6.

- a) Identify three risks associated with your final year project. Perform risk assessment and prepare RMMM plan. 10
- b) List any five configuration items produced during SDLC. Explain change control process 10

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