Time 3 hours

K.G.C.E.
EXAM
KARJAT, RAIGAD

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? Exlain 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   10
      RMMM plan.

b)   List any five configuration items produced during SDLC. Explain change control process   10