GCET
Internal Test
160701: Software Engineering
AY: 2010-2011, Semester II

Date: 10/03/2011
Max. Marks: 30

Time: 12: 00 P.M to1: 00 P.M

Q-1 a) Define risk. Explain the categories of risk with example. [3]

b) Explain software characteristics in detail. [4]

c) Justify the given statement. Software Engineering is layered technology. [3]

Q-2 a) Draw the PERT diagram for the given set of tasks and dependencies. Complete the table showing the critical path. [3]

Node	Dependencies	Time	Start Time	Stop Time
a		10		
b	e	10		
c	d , f	10		
d	a, b, f	20		
e	a , f	08		
f	a	03		

b) Calculate COCOMO Effort ,TDEV and Average Staffing for an semidetached project that is estimated to be 45,000 LOC. [3]

c) List all process models and explain meta model. [4]

OR

c) List and explain all the phases of SDLC Model [4]

Q-3 a) List all the guidelines of review. [3]

OR

a) List the project size estimation metrics and explain any one in detail [3]

b) Which life cycle model would you follow for developing software for each of the following applications? Mention the reasons justifying your choice of a particular lifecycle model. [2]
1. A new library automation software that would link various libraries in the city.
2. A graphical user interface part of a large software product.

c) List characteristics of good software engineer [2]

d) Explain the W5HH Principle. [1.5]

e) Distinguish between ISO 9000 Certification and SEI/CMM [1.5]