**PVP 14**

Code: CS7T5A

**IV B.Tech - I Semester – Regular/Supplementary Examinations**
**October - 2018**

# SOFTWARE ENGINEERING
## (COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours Max. Marks: 70

PART – A

Answer ***all*** the questions. All questions carry equal marks

11 x 2 = 22 M

1.

a) What is meant by Software and Software Engineering?
b) How does a framework activity change as the nature of the project changes?
c) What different points of view can be used to describe the requirements model?
d) How to create a preliminary use case?
e) What are the characteristics of a good design?
f) Name various Design concepts.
g) Write differences between verification and validation.
h) Briefly explain system testing.
i) What can we do to mitigate a risk?
j) Is software project we‘re working on at serious risk? And justify your answer.
k) List out various software myths.

PART – B

Answer any ***THREE*** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) What are the changing nature of software engineering? 8 M

b) Explain briefly about Process Models. 8 M

3. a) Draw a diagram for developing use-case for a SAFE HOME product. 8 M

b) Explain in detail collaborative requirements gathering. 8 M

4. a) Explain and draw the taxonomy of architectural styles for designing a software product. 8 M

b) Explain the different types of coupling. 8 M

5. a) What is testing? Explain the different levels of system testing. 6 M

b) Describe in detail black box testing methods. 10 M

6. Write short notes about the following

a) Reactive versus proactive risk strategies. 6 M
b) Risk refinement 6 M
c) ISO 9000 quality standards 4 M