Code No: 135BM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, November/December - 2018
SOFTWARE ENGINEERING
(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

1.a)	What are the merits of incremental model?	[2]
b)	List the task regions in the spiral model.	[3]
c)	What is feasibility study?	[2]
d)	What are the differences between functional requirements and non-functional requirements?	[3]
e)	List the guidelines for data design.	[2]
f)	Name the commonly used architectural styles.	[3]
g)	Write a short note on black box testing.	[2]
h)	How to compute the cyclomatic complexity?	[3]
i)	Differentiate between reactive risk and proactive risk strategies.	[2]
j)	What is software reliability and how this parameter helps in managing software quality?	[3]

PART - B

(50 Marks)

2.a) What is legacy software? Explain briefly its impact in software engineering.
b) Explain the following:
  i) Water fall model
  ii) Spiral Model. [5+5]

OR

3.a) Give an overview of unified process model.
b) Write detailed notes on CMMI. [5+5]

4.a) Describe five desirable characteristics of a good software requirement specification document.
b) Draw the complete DFD at least up to 2-levels for a library management system. [5+5]

OR

5.a) Compare ISO and SEI-CMM models.
b) Who should be involved in a requirement review? Draw a process model showing how a requirements review might be organized. [5+5]