

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M. Tech Winter 2017 - 18 Examination

Semester: 1
Subject Code: 03201180
Subject Name: Advance Software Engineering

Date: 04/01/2018
Time: 2.00 pm to 4.30 pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1** A) Explain Structure Charts software design tool with the help of suitable examples. (05)
B) Explain the principles of agile methods and also define Problems with agile methods. (05)
C) What are the differences between Review, Walkthroughs and inspection? (05)

Q.2 Answer the following questions. (Attempt any three) (Each five mark) (15)

- A) Describe in detail the spiral software engineering process.
B) What is validation and verification of software, Difference between Verification and Validation?
C) What is the difference between SRS document and design document? What are the contents we should contain in the SRS document and design document.
D) Draw the flow chart of risk management activity and explain various software risks.

A) Differentiate between the following:

- Q.3** 1) Black box testing and white box testing. (07)
2) Fault based testing and Error based testing.
3) Software quality and reliability
B) If some existing modules are to be re-used in building a new system, which design strategy are used and why? (08)

OR

B) What are software metrics? Also explain metrics for analysis model using suitable example. (08)

Q.4 A) What is software reengineering and reverse engineering? Why it is required? What are benefits of software reengineering? (07)

OR

A) What are the various techniques for cost estimation? (07)

B) Explain the following concepts in short:

- 1) Architectural Design.
- 2) Data Dictionary. (08)
- 3) Client-Server Software.
- 4) Unified Modeling Language.