

RANI RASHMONI GREEN UNIVERSITY
M.Sc. 3rd Semester Examination
Subject: - Computer Science
Course code: MSCCS303 (Advanced Software Engineering)
Full Marks 40

- 1. Answer any four out of six questions from the followings: 2×4=8**
- a) Define: Abstraction.
 - b) Differentiate between Verification and Validation.
 - c) Define Reverse Engineering.
 - d) Differentiate between Bug and Failure.
 - e) What do you mean by Software reliability.
 - f) Mark the differences between Alpha testing and Beta testing.
- 2. Answer any four out of six questions from the followings: 4×4=16**
- a) Define Software reengineering with an example. 4
 - b) What do you mean by Agile process of software development. 4
 - c) Explain Intermediate COCOMO. Suppose that a basic project was estimated to be 400 KLOC. Calculate effort and time for each of the three modes of development. 2+2=4
 - d) Explain Modularity and Information Hiding. 2+2=4
 - e) Define Equivalence class partitioning with an example. 2+2=4
 - f) Describe different phases of Software Development Life Cycle. 4
- 3. Answer any two out of four questions from the followings. 2×8=16**
- a) What is Statement Coverage. Draw the Control flow graph for the given code and also calculate cyclomatic complexity for the given code.
IF A = 354
THEN IF B > C
THEN A = B
ELSE A = C
END IF
END IF
PRINT A 4+2+2=8
 - b) Briefly describe different types of cohesion with examples. 8
 - c) Elaborate business process reengineering in your own language. 8
 - d) Briefly explain Capability Maturity Model. 8