

University of Sargodha

M. Sc. 2nd Term Examination 2019

Subject: I.T

Paper: Software Engineering (CMP-3310)

Maximum Marks: 80

Time allowed: 2:30 Hours

Note: Objective part is compulsory. Attempt any three questions from Subjective part.

Objective Part (Compulsory)

Q1. Write Short answer of the following in 2-3 lines each.

(2 * 16 = 32)

- I. What is Software Risk?
- II. What does that term mean "Project Scheduling"?
- III. Define Design Process?
- IV. Name any two Background Issues of SQA?
- V. Difference between Structured Analysis & Object Oriented Analysis?
- VI. Name the levels of Data & Process Modeling diagram?
- VII. Why Waterfall model is rigid model?
- VIII. Is we Prefer CBD? Justify.
- IX. What's an 'Inspection'?
- X. Write down the name of different phases of Rational Unified Process?
- XI. What is Software Reengineering?
- XII. Why Black Box Testing is called the End user type perspective? Justify
- XIII. Define Risk Management?
- XIV. What's the difference between Cohesion and Coupling?
- XV. Is Software Evaluation is necessary? Justify
- XVI. What is Formal Methods Model?

Subjective: (3 * 16 = 48)

Q2. What does Agile Manifesto means? Enlist all the principles of Agile.

Q3. Write a Note on any two of following option?

- a. Importance of Strategic Planning?
- b. User Interface Design: The Golden Rules

Q4. Write a Note on any two of following option?

- a. Importance of Strategic Planning
- b. Component level Design Element.
- c. Types of Information System

Q5. You have to create a Ticket Reservation System for Emirates (Emirates Air Line)? You have to test this software using different software testing techniques? Name any four testing techniques, which you have used? Also explained when and where (at which point/stage) you have used that testing technique?

Q6. What is Fact-Finding Technique? Explain different Fact-Finding Techniques with merits and demerits?