

Lamrin Tech Skills University Punjab

University School of Engineering & Technology

Program: _____

MST-II November, 2024

Semester: 3

Time: 1.5 hrs.

Max. Marks: 25

Roll No: _____

Subject: Principle of Modern Software Engineering (UGCS-207)

INSTRUCTIONS TO CANDIDATES

1. SECTION-A is Compulsory carrying one marks each.
2. SECTION-B you have to attempt 3 questions carrying 4 marks each.
3. SECTION-C you have to attempt 1 question carrying 8 marks each.

Section-A (5x1=5)

- i. What is a conceptual model in UML.
- ii. Define black-box testing.
- iii. What is the purpose of a use case diagram.
- iv. Name one architectural style in software design.
- v. What is debugging in software development.

Section-B (3x4=12)

Q2. Explain the design process and its importance in ensuring design quality in software development.

Q3. What is software architecture, and why is it important in the software development process? Illustrate your answer with

Q4. Discuss the purpose and components of a sequence diagram in UML.

Q5. Differentiate between black-box testing and white-box testing with suitable examples.

Q6. What are the key steps involved in debugging, and why is it considered an art in software development?

Section-C (1x8=8)

Q7. Discuss the architectural design process in software engineering, highlighting the significance of architectural styles and

Q8. Explain the different testing strategies for conventional software, including black-box testing, white-box testing, validation