

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