

BSIT  
29394

# University of Sargodha

BS 4<sup>th</sup> Semester/Term Exam 2021

Subject: Information Technology

Paper: Software Engineering (CMPC-206)

**Time Allowed: 02:30 Hours**

**Maximum Marks: 80**

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

## **Objective Part (Compulsory)**

**Q.1. Write short answers of the following in 2-3 lines each on your answer sheet. (2\*16)**

- i. List the process maturity levels in SEIs CMM.
- ii. What is Software Reengineering?
- iii. Why Black Box Testing is called the End user type perspective? Justify.
- iv. Define Risk Management?
- v. Difference between Structured Analysis & Object Oriented Analysis?
- vi. Name the levels of Data & Process Modeling diagram?
- vii. Is it necessary for Organization to do SWOT analysis? Justify.
- viii. Name the Fact Finding Techniques?
- ix. Name the strategic planning technique used to help a person or organization?
- x. Define Requirement Engineering?
- xi. When we select "Specialized Process Models"?
- xii. Define Software Design?
- xiii. What are various types of software maintenance?
- xiv. What is software re-engineering?
- xv. What is meant by software scope?
- xvi. How to find the size of a software product?

## **Subjective Part (3\*16)**

- Q.2. What is agile manifesto? Describe key principals which underlie agile software development.
- Q.3. a) What is software design? Explain different design concepts in detail.  
b) Explain three golden rules that form the basis of interface design.
- Q.4. What is architecture? Explain architectural styles in detail.
- Q.5. What's the importance of Software Process? Why we use it? Compare any of four Software Processes based on features and limitation?
- Q.6. Write a Note on any two of following option?
  - a) Importance of Strategic Planning.
  - b) Component level Design Element.
  - c) Types of Information System.