

# **University of Sargodha**

**BS 4<sup>th</sup> Term Examination 2018**

**Subject: Computer Sc.**

**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)**

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

- ✓ i. What are the characteristics of the Software?
- ✓ ii. What are the drawbacks of Spiral Model?
- ✓ iii. What is Extreme Programming?
- ✓ iv. What are the advantages of Evolutionary Prototyping?
- ✓ v. Differentiate between Refactoring and Refinement?
- ✓ vi. What is Risk Analysis?
- ✓ vii. What is difference between Verification & Validation?
- ✓ viii. What is Requirement Engineering?
- ✓ ix. What are the properties of good Requirements?
- ✓ x. What is SWOT Analysis?
- ✓ xi. What is Software Architecture Design?
- ✓ xii. What is the benefit of Modular design?
- ✓ xiii. What is Cohesion?
- ✓ xiv. What are the benefits of information hiding?
- ✓ xv. Differentiate between White box & Black box testing?
- ✓ xvi. What is Software Inspections?

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

- ✓ **Q.2.** Compare and Contrast between Agile Software Development and Component Based Development? (4\*4 Marks)
- ✓ **Q.3.** Write brief note on the following:
  - 1) Integration testing
  - 2) Performance testing
  - 3) Ad-hoc testing
  - 4) Acceptance testing
- ✓ **Q.4.** Explain the fundamental concepts of Software design?
- Q.5.** What is CMM? Explain the levels of CMM in detail?
- ✓ **Q.6.** a) Differentiate between functional and nonfunctional requirements with examples? ✓  
b) Write brief note on Software Re-engineering ✓ (8+8)



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