

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name : Software Engineering

Subject Code : 4CS05ISE1

Branch: B.Sc.I.T

Semester : 5

Date : 23/03/2018

Time : 10:30 To 01:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
-

- Q-1 Attempt the following questions: (14)**
- a) The Linear Sequential or Classic Life Cycle is also called 1
a) Waterfall Model b) Incremental Model
c) Spiral model c) Prototyping Model
- b) A test case design technique that makes use of a knowledge of the internal program logic 1
a) Black Box Testing b) White Box Testing
c) Unit Testing d) None of this
- c) Which of the following is not a part of Project Plan? 1
a) Risk Management Plan b) Personnel Plan
c) Project Monitoring Plan d) Software Architecture Planning
- d) Full form of LOC _____ 1
a) Lock Of Code b) Lock Of Case
c) Lines Of Code d) Lines Of Case
- e) is an incremental software development process model that emphasizes an extremely short development cycle. 1
a) Linear Sequential Development b) Rapid Application Development
c) Incremental Development c) Iterative Enhancement
- f) SRS is also known as specification of 1
a) White box testing b) Stress testing
c) Integrated testing d) Black box testing
- g) A COCOMO model is 1
a) Common Cost Estimation Model b) Complete Cost Estimation Model.
c) Comprehensive Cost Estimation Model d) Constructive Cost Estimation Model
- h) Software engineering layers contains _____ 1
a) Tools b) Process
c) Methods d) All Of These
- i) Coupling and cohesion can be represented using a 1
a) Cause-effect graph b) Dependence matrix
c) Structure chart d) SRS



- j) Software consists of 1
- Set of instructions + operating procedures
 - Programs + documentation + operating procedures
 - Programs + hardware manuals
 - Set of programs
- k) Which of the items listed below is not one of the software engineering layers? 1
- Process
 - Manufacturing
 - Methods
 - Tools
- l) Software feasibility is based on which of the following 1
- Business and marketing concerns
 - scope, constraints, market
 - Technology, finance, time, resources
 - Technical prowess of the developers
- m) _____ Means, are we building the right product? 1
- Verification
 - Validation
 - A and b
 - None Of These
- n) Which phase is not available in software life cycle? 1
- Coding
 - Testing
 - Maintenance
 - Abstraction

Attempt any four questions from Q-2 to Q-8

- Q-2 Attempt all questions (14)**
- 1 Explain Black box testing. 5
 - 2 Explain Program versus Software Products. 5
 - 3 Explain Cohesion and Coupling 4
- Q-3 Attempt all questions (14)**
- 1 Write a note on COCOMO model. 5
 - 2 Explain Data Modeling Concept in detail 5
 - 3 Explain Software engineering – a layered technology 4
- Q-4 Attempt all questions (14)**
- 1 Explain Control structure testing 5
 - 2 Describe Verification and Validation in testing. 5
 - 3 Explain Software quality assurance in project management. 4
- Q-5 Attempt all questions (14)**
- 1 Explain spiral model in detail 5
 - 2 Describe UML diagram with suitable example. 5
 - 3 Explain Prototyping Model. 4
- Q-6 Attempt all questions (14)**
- 1 Explain Risk Management in detail. 5
 - 2 Explain Waterfall model in detail. 5
 - 3 Describe Software re-engineering concept. 4
- Q-7 Attempt all questions (14)**
- 1 Explain Class diagram with suitable example 5
 - 2 Describe The ISO 900 Quality standard. 5
 - 3 Explain Metrics for project size estimation in LOC. 4
- Q-8 Attempt all questions (14)**
- 1 What is scheduling? Explain work breakdown structure. 7
 - 2 Give the Management Spectrum Brief introduction of 4P. 7

