[204/A54] SEAT No._____   No. of Printed Pages : 2

Sardar Patel University
Master of Computer Application
SEMESTER – IV Examination
PS04CMCA04: Software Engineering
Friday, 26ᵗʰ October, 2018

Time: 02:00 PM to 05:00 PM   **Max Marks: 70**

Q.1 **Select the most appropriate answer for the following questions:**   **[8]**

i. ___is a collection of programs written to serve other programs.
- A) System software
- B) Application software
- C) Embedded software
- D) Real time software

ii. Which of the following is not considered in iron triangle?
- A) People
- B) Process
- C) Product
- D) Technology

iii. __ is an example of deliverable.
- A) Class Diagram
- B) Sequence Diagram
- C) Work Product
- D) SRS Document

iv. ____ requirements are those that impose constraint on the execution characteristics of the system.
- A) Functional
- B) Performance
- C) Static Functional
- D) Runtime Performance

v. A criterion is ___ if all the sets of test cases that satisfy the criterion detect the same errors.
- A) Valid
- B) Verified
- C) Similar
- D) Reliable

vi. __cohesion occurs when there is no meaningful relationship among the elements of a module.
- A) Functional
- B) Temporal
- C) Coincidental
- D) Logical

vii. __is the inability of a system or a component to perform a required function according to its specifications.
- A) Error
- B) Fault
- C) Failure
- D) Inefficiency

viii. In __ level of testing, tested modules are combined into subsystems, which are then tested.
- A) System
- B) Acceptance
- C) Integration
- D) Module

Q.2 **Answer the following questions (Any seven):**   **[14]**

i. Define: Software Engineering

ii. List disadvantages of software reuse.

iii. List characteristics of good quality software.

iv. List basic tasks of requirement process.

v. What do you mean by the term "modular system"?

vi. What is design walkthrough?

vii. What do you mean by the term "test case"?

viii. Write the disadvantages of pair programming.

ix. What is work product?

Q.3

A   Explain spiral model for software development.   [6]

B   Write a note on challenges faced by the software engineering.   [6]

<div align="center">OR</div>

B   Explain attributes of web applications by giving example of each.   [6]

Q.4

A   Explain structure of SRS document.   [6]

B   Explain the importance of SRS document.   [6]

<div align="center">OR</div>

B   Write a note on use-case diagrams.   [6]

Q.5

A   Write a note on coupling.   [6]

B   Explain class diagram and sequence diagram by giving one example of each.   [6]

<div align="center">OR</div>

B   Write a note on PDL.   [6]

Q.6

A   Write a note on TDD.   [6]

B   Explain black box testing and white box testing.   [6]

<div align="center">OR</div>

B   Explain the concept of information hiding.   [6]

— X —

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