

Student name: \_\_\_\_\_

1) The importance of computer software has grown overtime. What is considered to be the major driving force behind this change?

- A) Radical change in older technologies
- B) Indispensable for all aspects of life, personal and professional
- C) Indispensable for business, science, and engineering
- D) Increase in personal computers

2) Which of the following is NOT a category of the seven software application domains?

- A) Legacy software
- B) System software
- C) Embedded software
- D) Web/Mobile applications

3) The IEEE defines software engineering as:

- A) The application of a disciplined approach to the development, operation, and maintenance of software
- B) The application of a systematic, disciplined approach to the development, operation, and maintenance of software
- C) The application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software
- D) The application of a systematic and quantifiable approach to the development of software

4) The generic process framework includes which of the following five (5) activities?

- A) Concept, Planning, Construction, Deployment, Maintenance
- B) Communication, Analyzing, Modeling, Construction, Deployment
- C) Concept, Planning, Modeling, Construction, Deployment
- D) Communication, Planning, Modeling, Construction, Deployment

5) What is meant by the term “umbrella activity” in the software engineering context?

- A) Provides a method of planning and tracking throughout the project
- B) Provides measurement tools to show how on track the timetable of the project is
- C) Provides software teams with a means of managing progress, quality, change, and risk
- D) Provides tools that help the software project manager determine feasibility of the project

6) What is meant by the term “Understand the Problem” when related to software engineering?

- A) A concerted effort should be made to understand the problem before a software solution is developed
- B) To listen to all the stakeholders of the problem and filter the content that will be helpful to resolving the problem
- C) To make a list of what is known about the problem in order to align possible solutions to an outcome
- D) To do a full analysis on the problem in order to resolve the issue

7) Which of the following statements is the BEST explanation for why software is considered to take on a dual role in today's world?

A) It has to deal with the product as well as all aspects of the technical aspects of developing it.

B) The product is still the most important component of development, but some consideration needs to be given to the vehicle for delivering the software.

C) It is both a product and a vehicle for delivering a product.

D) The product is paramount with some thought given to what type of platform it will be running on.

8) From the following which would be the BEST definition to explain software?

A) Software is both a logical and physical element of the system.

B) Software is a logical element of the system.

C) Software is a physical element of the system.

D) Software is something tangible and can be used in a system.

9) Fill in the blanks. The following \_\_\_\_\_ resides within a product or system.

A) Product-line software

B) Application software

C) System software

D) Embedded software

10) George Polya outlined the essence of software engineering practice as:

- A) Plan a solution that includes modeling and software design.
- B) Understand the problem, plan a solution, carry out the plan, and examine the result for accuracy.
- C) Understand the problem including the communication and analysis.
- D) Understand the problem, plan a solution, and carry out the plan.

## **Answer Key**

Test name: Chapter 01

1) B

2) A

3) C

4) D

5) C

6) A

7) C

8) B

9) D

10) B