**SAD\_week3**

1) Which of the following is NOT a part of the Evolutionary model of the SDLC process?

A) Analysis

B) Design

C) Planning

**D) Procedure**

2) Which of the following activities happens during the SDLC planning phase?

**A) A presentation of why the system should or should not be developed by the**

**organization is given**.

B) New system requirements are identified.

C) The high level design is prepared.

D) User acceptance testing is performed.

3) In which phase of the SDLC are the system requirements studied and structured?

A) Implementation

B) **Analysis**

C) Design

D) Planning

4) Which SDLC phase focuses on the needs of the entire organization?

A) Design

B) Planning

C) Logical

D) Analysis

5) In which phase of the SDLC is the description of the recommended solution

converted into logical and then physical system specifications?

A) Implementation

B) Analysis

**C) Design**

D) Planning

6) In which phase of the SDLC is the information system coded, tested, installed, and

supported in the organization?

**A) Implementation**

B) Analysis

C) Design

D) Planning

7) \_\_\_\_\_\_\_\_ is/are the final output from the analysis phase.

A) Physical system specifications

B) Work plan for the project

C) Priorities for systems and projects proposal

**D) A description of the alternative solution**

8) Which of the following are delivered after the completion of the implementation

phase?

**A) Code, documentation, training procedures, and support capabilities**

B) Functional, detailed specifications of all system elements

C) Description of current system and where problems and opportunities are with

a general recommendation on how to fix, enhance, or replace current system

D) Priorities for systems and projects; an architecture for data, networks, and

selection hardware, and IS management are the result of associated systems

9) Which of the following are delivered after the completion of analysis phase?

A) Functional, detailed specifications of all system elements

B) Priorities for systems and projects; an architecture for data, networks, and

selection hardware, and IS management are the result of associated systems

C) Code, documentation, training procedures, and support capabilities

D) **Description of current system and where problems and opportunities are with a general recommendation on how to fix, enhance, or replace current system**

10) Which of the below is NOT a true statement regarding the SDLC?

A) It is a highly linked set of phases whose products feed the activities in

subsequent phases.

B) The different phases are clearly defined.

C) The relationships between phases are well specified.

**D) It is a rapid method to prototype and develop an application.**

11) Which of the following are delivered after the completion of the Maintenance phase

of the SDLC?

**A) New versions or releases of software with associated updates to**

**documentation, training, and support**

B) Functional, detailed specifications of all system elements

C) Priorities for systems and projects; an architecture for data, networks, and

selection hardware, and IS management are the result of associated systems

D) Code, documentation, training procedures, and support capabilities

12) All of these are reasons to begin designing a system replacement except \_\_\_\_\_\_\_\_.

A) when the information system is no longer performing as desired.

**B) when maintenance costs become prohibitive.**

C) when the organization needs have substantially changed.

D) when the system has reached the time limit of seven years.

13) Which of the following is a drawback of the traditional waterfall SDLC approach?

**A) Users are locked into requirements.**

B) There are no criticisms.

C) The process is too chaotic.

D) It is too short of a process.

14) Which of the following is NOT a criticism of the traditional waterfall SDLC approach?

**A) Prototypes do not work properly.**

B) Users are locked into requirements.

C) The role of customers is narrowly defined.

D) Intangible processes are given hard and fast dates.

15) Which of the following is one of three key principles shared by the Agile

Methodologies?

**A) A focus on self-adaptive processes**

B) A focus on roles

C) A focus on predictive methodologies

D) A focus on passive processes

16) The third phase in the SDLC is planning and in this phase the analyst thoroughly

studies the organization's current procedures and the information systems used to

perform organizational tasks? False

17) The part of the design process that is independent of any specific hardware or

The software platform is referred to as logical design?

True

18) Which of the following is NOT true regarding iterative development?

A) It is a mechanism for dealing with a lack of predictability.

B) It focuses on the frequent production of working versions of a system.

C) It provides feedback to customers.

**D) Feedback is not provided to developers and customers.**

19) Which of the following is NOT valued according to the Agile Manifesto for software

development?

A) Responding to change over following a plan

B) Working software over comprehensive documentation

**C) Prioritizing the plan over the change required**

D) Individuals and interactions over processes and tools

20) \_\_\_\_\_\_\_\_ is/are often called the third approach to systems development, after the

process-oriented and data-oriented approaches.

A) Inheritance

B) Objects

C) Participatory design

**D) Object-oriented analysis and design**

21) One of the most popular realizations of the iterative approach for object-oriented

development is the \_\_\_\_\_\_\_\_.

A) JAD

B) RAD

**C) RUP**

D) eXtreme Programming

22) Which of the following is NOT a phase in the Rational Unified Process?

A) Inception

B) Elaboration

C) Construction

D) **Calculation**

23) Which of the following is an iterative approach to programming in the object-oriented design process?

**A) Rational Unified Process (RUP)**

B) Software Development Life Cycle (SDLC)

C) eXtreme Programming

D) The Construction Process

**Part 2. Short answer**

1) List the outputs delivered from each of the SDLC phases.

* The outputs of the planning phase include project plans, schedules, cost estimations, and procurement requirements.
* The output of analysis: a document that lists these requirements.
* The output of designing includes: Design documents that list the patterns and components selected for the project; Code produced by spikes used as a starting point for the development
* The output of the testing phase is functional software, ready for deployment to a production environment.
* The output of the maintenance phase is fix bug

2) What happens during the testing and installation of the new systems during the implementation phase of the software development life cycle?

3) Describe the criticism of the traditional waterfall SDLC process.

Forced timed phases on intangible and dynamic processes were doomed to fail​

Life-cycle reliance has resulted in massive amounts of process and documentation​

Cycles are not necessarily waterfalls

4) Explain object-oriented analysis and design.

Based on objects rather than data or processes​

Combines data and processes (called methods) into single entities call objects​

Object: A structure that encapsulates attributes and methods that operate on those attributes​

Inheritance: Hierarchical arrangement of classes enabling subclasses to inherit properties of superclasses​

Object Class: Logical grouping of objects that have the same attributes and behaviors​

5) Describe the Rational Unified Process (RUP) and its phases.

* Focus on high-quality software that meets the needs of its end users within a predictable schedule and budget​
* A process framework that can be tailored to a specific organization or project needs ​
* RUP is a methodology for delivering projects in a maximum performance manner
* Team-Unifying Approach
* Increased Team Productivity
* Risk-driven process​
* Use-Case driven development​
* Architecture-centric design​
* Objectives
* R U Ps four phases (each can be further divided)​
* Inception​
* Elaboration​
* Construction​
* Transition

DBS\_ tut4