

Unit 4 - Week 2 :

Thank you for taking the Assignment 2.

Course outline

How does an NPTEL online course work?

Week 0 :

Week 1 :

Week 2 :

- ☐ Lecture 6 : Life Cycle Model (unit? unit=14&lesson=15)
- ☐ Lecture 7 : Life Cycle Model (unit? unit=14&lesson=16)
- ☐ Lecture 8 : Waterfall Model (unit? unit=14&lesson=17)
- ☐ Lecture 9 : Waterfall Derivatives (unit? unit=14&lesson=18)
- ☐ Lecture 10 : Incremental Model (unit? unit=14&lesson=19)

Assignment 2

Your last recorded submission was on 2020-09-29, 12:03 IST Due date: 2020-09-30, 23:59 IST.

1) 1 point
Software developed using modern development practices have *higher visibility*. Which one of the following is implied by this sentence?

- a. Documents are produced at each stage of development
- b. The software development using modern development practices gets higher attention from the customer.
- c. Animation is used at each development stage
- d. Projects undertaken using modern development practices garner frequent media publicity.

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

2) 1 point
Which one of the following most accurately characterizes the *99% complete syndrome*?

- a. 99% of the project is completed on time.
- b. 99% of the project is not completed on time.
- c. 99% of project assumed to be complete, though in reality a much smaller part of the project is complete.
- d. 99% of project assumed to be complete, though in reality the full project is already complete.

☐ Lecture
Assessment submitted.
Material For
X Week 2 (unit?
unit=14&lesson=20)

☒ Quiz :
Assignment 2
(assessment?
name=150)

☐ Feedback Form
For Week 2
(unit?
unit=14&lesson=21)

Week 3 :

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Assignment
Detailed Solution

Text Transcripts

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

3)

1 point

Which one of the following is not a phase of the waterfall model of software development?

- a. Requirements specification
- b. Feasibility study
- c. Unit and integration testing
- d. Maintenance

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

4)

1 point

Of the following phases in the development of a typical software, which one requires the least effort?

- a. Requirements specification
- b. Feasibility study
- c. integration and system testing
- d. Maintenance

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

5)

1 point

Which one of the following activities is not undertaken during the feasibility stage of the waterfall model?

- a. Work out an overall understanding of the problem.
- b. Formulate different solution strategies.
- c. Examine alternate solution strategies
- d. Specify the requirements of the system

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

6)

1 point

Assessment submitted.
X

In a typical software development project, which one of the following is not a type of problem of the gathered requirements that is not targeted to be removed during requirements analysis?

- a. Anomalies
- b. Inconsistent
- c. Incomplete
- d. Semi-formal

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

7)

1 point

Which one of the following most accurately states the goals of system testing?

- a. Ensure that the developed system is fault free
- b. Ensure that the developed system functions according to its requirements as specified in the SRS document.
- c. Ensure that the developed system meets all its quality requirements
- d. Ensure that the various components of the developed system interface well

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

8)

1 point

Which one of the following is **not** an important type of maintenance undertaken during the maintenance phase of a typical software product?

- a. Corrective maintenance
- b. Perfective maintenance
- c. Adaptive maintenance
- d. Preventive maintenance

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

9)

1 point

Which one of the following simplifying assumptions of the classical waterfall model is removed by the iterative waterfall model of software development?

- a. No rework of any developed artifact is ever needed during development
- b. No requirements change takes place once the development work starts
- c. There are no risks whatsoever to the project
- d. No project delays occur

- ☐ a.
- ☒ b.
- ☐ c.

Assessment submitted.

X

☐ d.

10)

1 point

Which one of the following explains the following: "As the development of a software gets underway, the later the phase in which the defect gets detected, the more expensive is its removal."

- a. The phases succeeding the phase in which a defect occurs need to be reworked
- b. The phases preceding the phase in which a defect occurs need to be reworked
- c. The defect becomes more severe as the defect is detected in a later phase
- d. Several developers would be demotivated and would not work effectively

☐ a.

☐ b.

☒ c.

☐ d.

11)

1 point

Which one of the following is not true of the waterfall model?

- a. Ensures that milestones are well understood by the team
- b. Provides requirements stability during development
- c. Facilitates strong management role in development
- d. Leads to optimal development duration

☐ a.

☐ b.

☐ c.

☒ d.

12)

1 point

Which one of the following cannot be attributed to the waterfall model of software development?

- a. Gives a false impression of progress to the manager
- b. Integration is one big bang at the end
- c. Little opportunity available to the customers to pre-view the system
- d. Production of low-quality software

☐ a.

☐ b.

☐ c.

☒ d.

13)

1 point

Assessment submitted.
X

Suppose a project manager intends to select a suitable process model for a project that is just about to be initiated. Existence of which one of the following project characteristics indicates that waterfall model is not suitable for use in the project execution?

- a. Project requirements are well known and stable
- b. Software to be developed for a wireless communication application whose technology is well understood and used in earlier projects by the team members
- c. Development team have experience with developing very similar projects
- d. Project has aggressive deadlines

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

14)

1 point

In the V model of software development, during the high-level design stage, test suite for which one of the following types of testing is designed?

- a. Unit testing
- b. Integration testing
- c. System testing
- d. Performance testing

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

15)

1 point

In the V model of software development, during requirements analysis and specification phase, test suite for which one of the following types of testing is designed?

- a. Unit testing
- b. Integration testing
- c. System testing
- d. Performance testing

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers

Assessment submitted.

X