SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 1

(1) The size of the project is affected by the reused components and the programming language.

(2) Which of the following methods of computing effort is based on these factors: the size of a project in function points, the kind of development environment, and the maximum team size:

(a) Industry average graphs
(b) Science estimate
(c) (ISBSG) method
(d) Informal comparison

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 2

(1) Doubling the number of staff means that the duration of the project will be halved.

(2) One of the following is a function point estimation method

(a) Use cases method
(b) Task list
(c) Web pages
(d) The Dutch method

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 3

(1) If 4 people can complete a project in 13 month, then 5 people can complete it in 11 month.

(2) One of the following is a size estimation method

(a) Task list
(b) GUI components
(c) Industry average graphs
(d) The Dutch method

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 4

(1) LOC can be used for estimating an individual's task assignments because of the little differences in productivity between programmers.

(2) While scheduling the project, we find a set of sequential tasks upon which the project completion date depends this is called …

(a) Precedence
(b) Concurrence
(c) Critical Path
(d) Outline

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 5

(1) Measurements in LOC allow for project comparisons and estimation of future projects based on data from past projects.

(2) While scheduling the project, when a task must occur in parallel with another this is called …

(a) Precedence
(b) Concurrence
(c) Critical Path
(d) Outline

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 6

(1) In the Simplified Function-Point Techniques, counting FP depends only on internal logical files (ILF) and external interface files (EIF).

(2) The most popular method in estimating development effort is:

(a) Function points method
(b) Lines of code method (LOC)
(c) Use case points method

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 7

(1) Windows, interfaces, and dialog boxes are GUI that can be used in counting function points.

(2) Tasks that occur before each other is said to be:
- ***(a)*** Concurrent
- ***(b)*** Precedent
- ***(c)*** Critical

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 8

(1) If you don't have your own historical data, you can look up a rough estimate of effort by using an effort graph.

(2) One of the following is a size estimation method:
- ***(a)*** GUI components
- ***(b)*** Industry average graphs
- ***(c)*** The Dutch method

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 9

(1) Adding people to a project increases the productivity of existing team members.

(2) The consensus of researchers is that schedule compression must be not more than:
- ***(a)*** 25 % from nominal
- ***(b)*** 20 % from nominal
- ***(c)*** 30 % from nominal

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 10

(1) The use of historical data is positively correlated with cost and schedule overruns.

(2) If the feature set of a project is flexible and can be cut, the schedule can be shortened as much as you want, subject to your willingness to cut features.

(3) We can reduce costs by shortening the schedule and conducting the project with a smaller team.

SWE145 – SW Cost Estimation Oral Exam – Fall 2023 - Model 11

(1) Medium and large projects typically experience some ramp down of team members from the beginning to the middle of the project, and some ramp up in the final stages.

(2) Measurements in LOC allow for project comparisons and estimation of future projects based on data from past projects.