**Midterm-Exam**

**Review of attempt 1**

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| --- | --- |
| **Started on** | Tuesday, 10 April 2012, 09:07 AM |
| **Completed on** | Tuesday, 10 April 2012, 10:32 AM |
| **Time taken** | 1 hour 25 mins |
| **Grade** | **44** out of a maximum of 100 (**44**%) |

Question**1**

Marks: 2

According to reading "Software Development Productivity", Which of the following is NOT one of three steps to increase customer value?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Iterative development with frequent releases creates a short feedback loop between customers and developers Incorrect |  |
|  | b. Understanding customer value is to understand how our customers create value for their customers Incorrect |  |
|  | c. Refactoring the code on an on-going basis to keep its design simple and clean Correct |  |
|  | d. Linking organizations through partnerships that focus on the overall productivity of the combined enterprise. Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**2**

Marks: 2

Which of following is not TRUE about Measurement principles?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Metrics must be clearly and consistently defined Incorrect |  |
|  | b. Metrics must include goals and timeframe Incorrect |  |
|  | c. Metrics must be used to punish individuals Correct |  |
|  | d. Metrics must be tied to business objectives Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**3**

Marks: 25

Why the business should spend money and effort to measure the software project? What is the right number of metrics that should be defined and used for software project? Explain in details to support your answer.

Answer:

|  |
| --- |
| The reason that business should spend money and effort to measure the software project:  - Help the manager easily control the project, and also know the progress of project.  - Measuring the software project help the manager estimate the plan, schedule and cost to spend the project.  - Thanks for measure, the project manager can know the project complete successful or fail.  The right number of metrics that should be defined and used for software project:  - As usual, base on two or more measures we can give a metric. And base on some metrics, we can give a infomation help a project.  - The right number of metrics is a data can give a infomeation for a project manager to estimate a project. Such as:   + KLOC: give a size of project   + Effort/Time: the effort of project staff spend on period of time   + Size/Effort: to know a productivity.   + Deviation between actual cost and budget: compare actual cost and budget, check whether a progress of project on time or late.  + The number of requirements change/ All of the requirements |

Question**4**

Marks: 2

Which of following is NOT a Scheduling Technique Errors related to Resources?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Weak resources Correct |  |
|  | b. Duplicate Resources Incorrect |  |
|  | c. Resources Over Allocated Incorrect |  |
|  | d. Resources Scheduled for Overtime Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**5**

Marks: 2

Which of the following is not an objective when developing a schedule?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. How do we organize the work and resources over time to complete the work Incorrect |  |
|  | b. What schedule alternatives do we have? Incorrect |  |
|  | c. Are we making effective use of resources? Incorrect |  |
|  | d. How much will this project cost? Correct |  |

Correct

Marks for this submission: 2/2.

Question**6**

Marks: 2

What does a burn down chart show?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. The burn down Chart shows a trended view of task, ideal day or story point progress Correct |  |
|  | b. Feature estimates (user stories, backlog items, requirements, etc.) successfully delivered by iteration Incorrect |  |
|  | c. Actual resource hours per iteration Incorrect |  |
|  | d. Actual costs incurred per iteration Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**7**

Marks: 25

What are the key activities for a successful measurement program? Describe those activities and explain in details to support your answer

Answer:

|  |
| --- |
| The key activities for a successful measurement program. - Create WBS - Give GQM - Draw a network diagram - Determine a critical path - Design a plan |

Question**8**

Marks: 2

Which of the following is NOT a disavantage of traditional methodologies?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Users tend to define as many requirements that they can think of Incorrect |  |
|  | b. Requirements are easy to define up front Correct |  |
|  | c. Can produce excessive documentation Incorrect |  |
|  | d. Few visible signs of progress until the end Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**9**

Marks: 2

Which of following is NOT a Software Productivity Goal?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Increase cost Correct |  |
|  | b. Reduce time to market Incorrect |  |
|  | c. Increase product quality Incorrect |  |
|  | d. Improve estimation Incorrect |  |

Incorrect

Marks for this submission: 0/2.

Question**10**

Marks: 2

According to reading “CIO\_Metrics\_and\_Decision\_Making “, which of following is not a step to help IT executives take action and improve their own decision-making:

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Balance your data sources to make the best possible decisions Incorrect |  |
|  | b. Hire the best analysts Correct |  |
|  | c. Match frequency to importance Incorrect |  |
|  | d. Dare to contribute to the bottom line Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**11**

Marks: 2

Which chart is best for displaying trends over time?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Column Incorrect |  |
|  | b. Bar Incorrect |  |
|  | c. Line Correct |  |
|  | d. Radar Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**12**

Marks: 2

A software measurement plan doesn’t describe?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. What will be measured, including what data will be gathered. Incorrect |  |
|  | b. When the data will be gathered. Incorrect |  |
|  | c. Why measurement is critical in enterprises. Correct |  |
|  | d. How the data will be gathered, analyzed and stored Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**13**

Marks: 2

Accordings to reading "Why Agile Software Development Techniques Work: Improved Feedback", which of following is one of the reasons why agile techniques are so effective?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. They reduce effort to develop software product Incorrect |  |
|  | b. They reduce time to market Incorrect |  |
|  | c. They reduce the feedback cycle between the generation of an idea Correct |  |
|  | d. They increase productivity Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**14**

Marks: 2

Which of the following does NOT accurately describe the chart type?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Bar – compare values across categories Incorrect |  |
|  | b. Line – show trends Incorrect |  |
|  | c. Scatter – show portions of 100% Correct |  |
|  | d. Radar - display results compared to targets Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**15**

Marks: 2

Which of the following is NOT a key characteristic of traditional methodologies?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Assume that requirements can be known at the start of the project Incorrect |  |
|  | b. Product Owner/User involvement with development team is minimal after requirements are approved Incorrect |  |
|  | c. Project priorities can be adjusted from sprint to sprint by the Product Owner Correct |  |
|  | d. Schedule, budget, architecture and design for entire project can be created “up front” given requirements Incorrect |  |

Incorrect

Marks for this submission: 0/2.

Question**16**

Marks: 2

Which of the following best describes a work breakdown structure?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. A work breakdown structure is a hierarchical view of a resource's task assignments. Incorrect |  |
|  | b. A work breakdown structure is used to help people who are struggling with their tasks. Incorrect |  |
|  | c. A work breakdown structure describes the project's work over time. Incorrect |  |
|  | d. A work breakdown structure is a technique that you can use to define and organize all project work. Correct |  |

Correct

Marks for this submission: 2/2.

Question**17**

Marks: 2

Which of the following best describes the 'discount rate'?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. The discount rate is used by ROI when calculating the time value of money. Incorrect |  |
|  | b. When calculating the time value of money, the discount rate is the rate of interest that the money is being compounded by over time. Correct |  |
|  | c. The discount rate is used by ROI when money is being compounded by over time. Incorrect |  |
|  | d. When calculating the time value of money, the discount rate is the amount of money that is being compounded over time. Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**18**

Marks: 2

Which of following is NOT a Scheduling Technique Errors related to Tasks?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Tasks with no Predecessors or Successors Incorrect |  |
|  | b. Tasks with no skills required to perform. Correct |  |
|  | c. Tasks with no Resources Assigned Incorrect |  |
|  | d. Inappropriate size tasks Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**19**

Marks: 2

Which of following is NOT a Software Productivity Driver?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Work environment attributes Incorrect |  |
|  | b. Software product attributes Incorrect |  |
|  | c. End users attributes Correct |  |
|  | d. Project staff attributes Incorrect |  |

Incorrect

Marks for this submission: 0/2.

Question**20**

Marks: 2

Which of the following is NOT a problem with the ROI method of evaluating projects?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. It ignores benefits that may occur after the payback period, and so does not measure longer term profitability Incorrect |  |
|  | b. It ignores the currency being used Correct |  |
|  | c. It ignores the time value of money -- the discount rate Incorrect |  |
|  | d. It does not factor in risk. Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**21**

Marks: 2

Which of the following is true for all processes?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Processes always produce an output Correct |  |
|  | b. Processes always produce quality results Incorrect |  |
|  | c. Processes always satisfy software measurement objectives Incorrect |  |
|  | d. Processes always have exit criteria Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**22**

Marks: 2

Which of following is NOT a difficulty when measuring productivity?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. We don’t really understand “effort” Incorrect |  |
|  | b. We don’t really understand “cost” Correct |  |
|  | c. We don’t really understand “size” Incorrect |  |
|  | d. People don’t work at the same rate Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**23**

Marks: 2

Software productivity is commonly measured as:

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Effort/Size Incorrect |  |
|  | b. Effort/Time Incorrect |  |
|  | c. Size/Effort Correct |  |
|  | d. Time/Effort Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**24**

Marks: 2

Which chart is best for displaying display results compared to targets?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Column Incorrect |  |
|  | b. Bar Incorrect |  |
|  | c. Line Incorrect |  |
|  | d. Radar Correct |  |

Correct

Marks for this submission: 2/2.

Question**25**

Marks: 2

Which of the following most accurately describes "exit criteria"?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. All conditions that must be present and/or satisfied before a process can successfully terminate. Correct |  |
|  | b. All conditions that may cause a process error Incorrect |  |
|  | c. All conditions required by the customer Incorrect |  |
|  | d. Transitional data Incorrect |  |

Correct

Marks for this submission: 2/2.

Question**26**

Marks: 2

Which of the following is NOT true?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. The critical path contains the task(s) that drive the project’s end date Incorrect |  |
|  | b. With agile planning the release plan shows us what will be worked on in the release’s iterations. Incorrect |  |
|  | c. The product backlog is a list of user stories Incorrect |  |
|  | d. The product road map is a list of user stories Correct |  |

Correct

Marks for this submission: 2/2.

Question**27**

Marks: 2

Which of the following describes how we can measure people’s opinions?

Choose one answer.

|  |  |  |
| --- | --- | --- |
|  | a. Use a Line chart Incorrect |  |
|  | b. Use a radar chart Incorrect |  |
|  | c. Use a “Likert” scale Correct |  |
|  | d. Use a trend analysis Incorrect |  |

Correct

Marks for this submission: 2/2.