* **Question 1**

10 out of 10 points

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|  |  | | | |
| Correct | Which of the following is not one of the three dimensions of software specifications? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  Interactions | | Answers: | a.  Information | |  | b.  Behavior | |  | c.  Structure | |  | d.  Interactions | |  |  |  |

* **Question 2**

0 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | Dynamic models |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  Model structural aspects of the system. | | Answers: | a.  Are subject to change as we learn more about the problem. | |  | b.  Model structural aspects of the system. | |  | c.  Model behavioral aspects of the system. | |  | d.  May be implemented as UML class diagrams. | |  |  |  |

* **Question 3**

10 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A lattice is |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  A graph with no cycles. | | Answers: | a.  A graph with no cycles. | |  | b.  A structure upon which software is built. | |  | c.  A kind of tree structure. | |  | d.  A kind of array. | |  |  |  |

* **Question 4**

10 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In a layered architecture, the layer in which you typically find modules that have been harvested from existing systems is |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  Domain specific | | Answers: | a.  Application | |  | b.  Domain specific | |  | c.  Common services | |  | d.  Base | |  |  |  |

* **Question 5**

0 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | Which of the following UML models are graphs with no cycles? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  Activity diagram | | Answers: | a.  Class diagram | |  | b.  Activity diagram | |  | c.  State transition diagram | |  | d.  None of the above - they all may have cycles | |  |  |  |

* **Question 6**

10 out of 10 points

|  |  |  |  |  |
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|  |  | | | |
| Correct | The notation that was developed by Peter Chen and later enhanced by James Martin was |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  Entity-relationship diagrams | | Answers: | a.  UML class diagrams | |  | b.  State transition diagrams | |  | c.  Decision tables | |  | d.  Entity-relationship diagrams | |  |  |  |

* **Question 7**

10 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The data model that is unordered and has no duplicates is |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  Set | | Answers: | a.  Set | |  | b.  List | |  | c.  Map | |  | d.  Record | |  |  |  |

* **Question 8**

10 out of 10 points

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| Correct | In activity diagrams, the rectangular boxes with rounded corners represent |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  Actions | | Answers: | a.  Decisions | |  | b.  Asynchronous threads | |  | c.  Actions | |  | d.  Swim lanes | |  |  |  |

* **Question 9**

10 out of 10 points

|  |  |  |  |  |
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|  |  | | | |
| Correct | Which of the following is a declarative model? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  Decision table | | Answers: | a.  Sequence diagram | |  | b.  Decision table | |  | c.  Class diagram | |  | d.  Activity diagram | |  |  |  |

* **Question 10**

10 out of 10 points

|  |  |  |  |  |
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|  |  | | | |
| Correct | How do you determine the right size for a module? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  Has high cohesion. | | Answers: | a.  Fits on one page of design. | |  | b.  Fits on one screen of code. | |  | c.  Has high cohesion. | |  | d.  Can be implemented by one person. | |  |  |  |

* **Question 11**

10 out of 10 points

|  |  |  |  |  |
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|  |  | | | |
| Correct | Who said, "Software is a lot like magic?" |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  Sam Schappelle | | Answers: | a.  Harry Houdini | |  | b.  Penn Jillete | |  | c.  Sam Schappelle | |  | d.  David Parnas | |  |  |  |

* **Question 12**

10 out of 10 points

|  |  |  |  |  |
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|  |  | | | |
| Correct | The idea that modules encapsulate "secrets" was due to whom? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  David Parnas | | Answers: | a.  Glenford Myers | |  | b.  Sam Schappelle | |  | c.  David Parnas | |  | d.  James Martin | |  |  |  |