**MCQ**

**Chapter 12:**

[The correct answer for each question is indicated by a http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif]

|  |
| --- |
|  |

Top of Form

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following is the best description of a design model? | | |
|  |  | | | **A)** | It shows what the system will do. | |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **B)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | **It shows how the system will work.** | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | It shows why the system is required. | |
|  | |  |  |  |  | |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **2** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following is an example of design? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | There will be a class called Client in the Agate system. | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | The Client class has an attribute called companyName. | |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **C)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | **The maximum length of the companyName attribute when printed will be 40 characters.** | |
|  | |  |  |  |  | |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **3** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich statement is true? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Iterative processes such as the Unified Process give phases different names from activities to confuse students. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Iterative processes such as the Unified Process give phases different names from activities because they share the same namespace and must be unique. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **C)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **Iterative processes such as the Unified Process give phases different names from activities to allow the same activities to take place in different phases.** |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **4** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following is a description of logical design? | | |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **A)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **Design of aspects of the system without having to consider how they will physically be implemented.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)** | | Design of the logic used in operations, based on decision trees, decision tables or Object Constraint Language. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Design of the logic gates used in the implementation of the processor chips used in the system. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **5** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich statement is an example of logical design? | | |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **A)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **Communication between the Agate system and the company accounts system will be by passing messages.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | There will be a message sent to the accounts system called NewInvoice, which will be formatted in XML, and each invoice will have a six-digit invoice number allocated by the accounts system. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Communication between the Agate system and the company accounts system will use the OpenJMS Java message server with persistent storage of messages provided by the MySQL database. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **6** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhat is system design? | | |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **A)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **Designing the architecture of the system and setting standards, for example for user interface design.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Designing the inputs and outputs of the system, processes and data storage. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Designing classes that will implement the system in an object-oriented language. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **7** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following is not part of detailed design? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Screen and window layouts in the form of user interface classes. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **B)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **Allocation of sub-systems to processors.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Allocation of responsibilities to classes. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **8** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following is a list of characteristics of good design? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Consistency, efficiency, effectiveness and correct scope. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **B)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **Efficiency, reliability, security and flexibility.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Efficiency, redundancy, functionality and usability. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **9** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhat is meant by an economical design? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | The design itself was produced at a low cost. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **B)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **The fixed costs and running costs of the system will be low.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | The system will use inexpensive disks. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **10** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhat is meant by a secure design? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | The design is held in encrypted format in a CASE tool repository. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | The models are backed up nightly and the back-up stored off-site. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **C)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **The design includes measures to protect the system from deliberate or inadvertent damage.** |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **11** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following is not a characteristic of a maintainable design? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | The developed program code and the design model are kept in sync. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | The design and program code are well documented. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **C)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **The code is designed to require maintenance work equivalent to 60% of all staff time.** |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **12** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following might provide a measure of the usability of a system? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | The number of errors made by programmers. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **B)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **The number of errors made by users.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | The number of bugs found by system testers. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **13** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhat is meant by design trade-offs? | | |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **A)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **A way of resolving conflicts between requirements and design constraints.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | A way of achieving measurable objectives in design. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | A way of producing reusable code. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **14** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhat is meant by the term ‘measurable objectives’? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Aims of the system that are vague and difficult to assess. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **B)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **Objectives that can be quantified and have a specific numeric target.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Strategic aims of the organisation that is getting a new system. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **15** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following is not a measurable objective? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | To reduce errors made by users by 50%. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | To cut response times by an average of 5 seconds. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **C)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **To process more invoices.** |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **16** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following is a measurable objective? | | |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **A)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **To despatch all orders received before 11.00 am on the same day.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | To despatch orders more quickly. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | To improve customer satisfaction. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **17** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich of the following is a definition of enterprise architecture? | | |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **A)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Modelling the architecture of single systems or groups of related systems within a framework, and the structure of and relationships between subsystems. |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **B)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **Documenting the way the organization operates, its people, its locations, its strategy and how the information technology and information systems support the organization.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Designing individual elements to conform to the standards and to provide the basis for an effective and efficient implementation. |
|  | |  |  |  | |  |
|  | | | | | | |
| http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | | | | |
| **18** | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | http://highered.mheducation.com/olcweb/styles/shared/spacer.gifWhich quality of design do design patterns contribute to? | | |
|  | http://highered.mheducation.com/olcweb/styles/v2_glencoe/images/correct.gif | | | **A)http://highered.mheducation.com/olcweb/styles/shared/spacer.gif** | | **Reusability.** |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **B)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Reliability. |
|  | http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | | **C)**http://highered.mheducation.com/olcweb/styles/shared/spacer.gif | | Efficiency. |
|  | |  |  |  | |  |
|  | | | | | | |
|  | | | | | | |