CMN - OOP and UML - Mod 1 - DQ - Day 6

Q. Inheritance represents?
1). **"is a" relationship**
2). "has a" relationship
3). "part of" relationship
4). instantiation relationship

Q.Messages on a Sequence Diagram will get mapped to what in the corresponding Class Diagram?
1). Class Name
2). Attribute of Class
3). **Operation of Class**
4). Stereotype

Q. The relationship which depicts a component implementing an interface is?
1). Association
2). **Realization**
3). Aggregation
4). Composition

Q. Which of the following is a correct description related to sequence diagram notations?
1). **Life line represents the lifetime of an object**
2). **Arrows indicate the flow of messages between objects**
3). Includes indicated the one scenario is included in the other
4). Composition is indicated by a filled diamond

Q. Which of the following is not a valid inheritance relationship?
1). Single inheritance
2). Multiple inheritance
3). Multi level inheritance
4). **Single to multiple inheritance**

Q. Which of the following is/are the types of use case relationships?
1). link

2). **extend**

3). **include**

4). conditional

Q.The source code for an object can be written and maintained independently of the source code for other objects.
This is called as?
1). Information-hiding

2). **Modularity**

3). Code re-use

4). Pluggability and debugging ease

Q. Which of the following statements are true?
1). The relationship between a class and its superclass is an example of a "has-a" relationship

2). **The relationship between a class and its superclass is an example of an "is-a" relationship**

3). **The relationship between a class and an object referenced by a field within the class is an example of**
a "has-a" relationship

4). The relationship between a class and an object referenced by a field within the class is an examp le of
an "is-a" relationship

Q. Which of the following statements is TRUE for a sequence diagram?
1). It is a static view diagram

2). It shows the sequence in which an object changes state

3). **It shows exchange of messages across objects**

4). It is semantically equivalent to a class diagram

Q. Which of the following statements is true about UML?
1). It is a process

2). **It is a visual modeling language**

3). It is a programming language

4). It is a tool repository

CMN - OOP and UML - Mod 1 - DQ - Day 5

Q.An XML element is of type "xs:date" and contain a string like "Hello World", the element will be _____.

1). valid

2). sometimes valid

3). sometimes not valid

4). **not valid**

Q. When is a constructor called?

1). When the class containing the constructor is loaded in the memory

2). **During the instantiation of a new object**

3). During the construction of a new class

4). At the beginning of any program execution

Q. Which of these are not complex elements in XML ?

1). Empty elements

2). Elements that contain only other elements

3). **Elements that contain only text**

4). **Elements that contain only numbers**

Q. What is an overloaded constructor?

1). A constructor with multiple program statements

2). A second constructor with the same constructor name and signature as the first constructor

3). A second constructor with a different signature and a different name than the first constructor

4). **A second or other multiple constructors with same name but different signature than any other constructor**

Q. The correct syntax for defining an attribute is?

1). **<xs:attribute name="empName" type="xs:string"/>**

2). <xs:attribute name="empName"/>

3). <attribute name="empName" type="xs:string"/>

4). <xs:attribute id=empName type=xs:string/>

Q. Which of the following statement/s is/are true for Object Oriented languages?
1). They emphasize on doing things rather than on data

2). More development time is required

3). **Model real-world well**

4). Less re-usability

Q. Match the following:

i. State
ii. Operation
iii. Behavior
iv. Modularity

a. The extent to which a system can be divided into internal components
b. The operations that the object can perform
c. One of the possible conditions in which the object may exist
d. Requested from any object of the class to affect behavior
1). i-b, ii-c, iii-d, iv-a

2). i-c, ii-a, iii-d, iv-b

3). **i-c, ii-d, iii- b, iv-a**

4). i-b, ii-a, iii-c, iv-d

Q._____ is an entity that is external to the system and directly interacts with the system, deriving some
benefits from the interaction.
1). **Actor**

2). Use case

3). Class

4). Relationship

Q. Refer the given schema code snippet:

<xs:element name="root">
<xs:complexType>
<xs:choice>

<xs:sequence>
<xs:element name="A"/>
<xs:element
name="B"/>
</xs:sequence>
<xs:sequence>
<xs:element name="X"/>

<xs:element name="Z"/>
</xs:sequence>

</xs:choice>

</xs:complexType>
</xs:element>

Which of the following statement is true about the above given code snippet?
1). **This not a valid schema definition**

2). **<xs:sequence> cannot appear inside <xs:choice>**

3). **This will allow either elements <A> and <B> OR elements <X> and <Z>**

4). **This is a valid definition**

Q. <book>

<title>Introduction to XML</title>

<author>
<firstname>James</firstname>

<lastname>Williams</lastname>

</author>
</book>

Identify the correct schema file relevant to the above given XML file:
1). <xs:element name="book">

<xs:complexType>

<xs:sequence>

<xs:element name="title" type="xs:string"/>

<xs:element name="author"

type="xs:string"/>

<xs:element name="firstname"

type="xs:string"/>

<xs:element

name="lastname" type="xs:string"/>

</xs:sequence>

</xs:complexType>

</xs:element>

2). <xs:element name="book">

<xs:complexType>

<xs:sequence>

<xs:element name="title" type="xs:string"/>

<xs:element
name="author" type="xs:string"/>
  <xs:sequence>

  <xs:element name="firstname" type="xs:string"/>

    <xs:element name="lastname" type="xs:string"/>

    </xs:sequence>

    </xs:sequence>

    </xs:complexType>

    </xs:element>

3). <xs:element name="book">

<xs:complexType>

<xs:sequence>

<xs:element name="title" type="xs:string"/>

<xs:element name="author">

<xs:complexType>

<xs:sequence>

<xs:element name="firstname" type="xs:string"/>

  <xs:element name="lastname" type="xs:string"/>

  <xs:sequence>

  </xs:sequence>

  </xs:complexType>

  </xs:element>

4). **<xs:element name="book">**

<xs:complexType>

<xs:sequence>

<xs:element name="title" type="xs:string"/>

<xs:element name="author">

<xs:complexType>

<xs:sequence>

<xs:element
name="firstname" type="xs:string"/>

<xs:element name="lastname" type="xs:string"/>

<xs:sequence>

</xs:complexType>

</xs:sequence>

</xs:complexType>

</xs:element>