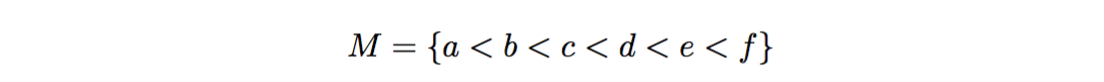
**Closures in lectic order**

**LATEST SUBMISSION GRADE**

66.66%

**1.Question 1**

**Let M be a linearly ordered set:**

****

**Which statements are true? (In these statements, “<” stands for “lectically smaller”.)**

Statement 1



**Correct**

The first attribute in which the two sets differ is *d* , and it belongs to the second set.

Statement 2



**Correct**

The first attribute in which the two sets differ is *c*, and it belongs to the second set.

Statement 3



**Correct**

The first attribute in which the two sets differ is *d*, and it belongs to the second set.

Statement 4



Statement 5



**Correct**

The first attribute in which the two sets differ is *d*, and it belongs to the second set.

Statement 6



**1 / 1 point**

**2.Question 2**

**Here is a formal context of Star Alliance airlines and their destinations (as of 2002).**

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**Let *A* = {Latin America, Canada, Mexico, Caribbean, United States} and *m*= Middle East. Which attributes are in *A* ⊕ *m* if the attributes are ordered as shown in the table (from left to right) ?**

Latin America

**Correct**

Latin America is in *A* and it is less than *m*. Therefore, it belongs to *A* ⊕ *m*.

Europe

**Correct**

Europe belongs to *A* ⊕ *m* = {Latin America, Canada, Middle East}*''.*

Canada

**Correct**

Canada is in *A* and it is less than *m*. Therefore, it belongs to *A* ⊕ *m*.

Asia Pacific

**Correct**

Asia Pacific belongs to *A* ⊕ *m* = {Latin America, Canada, Middle East}*''*.

Middle East

**Correct**

*m* = Middle East, and *m* always belongs to *A* ⊕ *m*.

Africa

Mexico

**Correct**

Mexico belongs to *A* ⊕ *m* = {Latin America, Canada, Middle East}*''*.

Caribbean

United States

**Correct**

Unites States belongs to *A* ⊕ *m* = {Latin America, Canada, Middle East}*''*.

**1 / 1 point**

**3.Question 3**

**In the Star Alliance context, let *A* = {Latin America, Canada, Mexico, Caribbean, United States} and *m*= Middle East. Is *A* ⊕ *m* the lectically next closed set after *A*?**

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Yes

No

**Correct**

**1 / 1 point**

**4.Question 4**

**Consider the following formal context.**

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**Which attributes are in the lectically next closed set after {b, d, f }?**

a

b

**Correct**

c

**Correct**

d

e

f

**Correct**

f is part of every closed attribute set of this context.

**1 / 1 point**

**5.Question 5**

**How many concepts are there in this context?**

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8,5

**Incorrect**

**0 / 1 point**

**6.Question 6**

**How many concepts are there in the Star Alliance context?**

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Description automatically generated**

8,10

**Incorrect**