**Week 8 Assignment 8**

The due date for submitting this assignment has passed. **Due on 2018-10-03, 23:59 IST.**

As per our records you have not submitted this assignment.

1) **An individual variable is just a place maker and not a name.**
   - a) True
   - b) False

   ![Checkbox](#)
   ![Checkbox](#)

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   - a)

2) **Where [P(x): x is a person, Lxy: x likes y, Gx: x is great], the correct reading of “(∃x) (∀y) [Lxy → Gx]” is ‘If someone is liked by everyone, then that someone is great’**
   - a) True
   - b) False

   ![Checkbox](#)
   ![Checkbox](#)

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   - a)

3) **In (∀x) Gx, every occurrence of the x is a bound occurrence.**
   - a) True
   - b) False

   ![Checkbox](#)
   ![Checkbox](#)

   **Score:** 0
   **Accepted Answers:**
   - a)
b) 1 point

The correct symbolization of “Bonny is both rich and handsome, but he is not intelligent” is: \( (R_x \lor B_x) \land \neg I_x \). [Where \( R_x: x \) is rich, \( B_x: x \) is handsome, \( I_x: x \) intelligent, \( b: \) Bonny].

a) True

b) False

   a)
   b)

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)

5) 1 point

The correct symbolization of “No milk products are expensive” is: \( \neg (\forall y) (M_y \Rightarrow E_Y) \).

[Where \( M_x: x \) is milk product, \( E_x: x \) is expensive].

a) True

b) False

   a)
   b)

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)

6) 1 point

Where [U.D.: Living creatures, \( B_x: x \) is a bee-eater, \( M_x: x \) is a mammal, \( T_x: x \) is a tail ]

The correct translation of ‘If any bee-eater is mammal, then if all bee-eaters creatures with tails, then it too will be with a tail’ is \( (\forall y) [(B_y \land M_y) \Rightarrow (\forall x) (B_x \land T_y)] \)

(a) True

(b) False

   a)
   b)

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)
The correct symbolization of “All good students are ambitious, but a few ambitious people are successful” is: \((\forall x) (Gx \iff Ax) \bullet (\exists x) (Ax \bullet Sx)\). [Where UD: People, Gx: is a good student, Ax: x is ambitious, Sx: x is successful].

a) True
b) False

No, the answer is incorrect.
Score: 0
Accepted Answers:
a)

8)
Where \([Sx: x \text{ is a student, } Ox: x \text{ is overlooked}]\), the correct symbolization of “All and only students are overlooked” is: \([\forall y] (Sy \Rightarrow Oy) \supset [(\exists x) (Ox \land Sx)]\).

a) True
b) False

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)

c)

Which of the following claims is/are not true?

a) Individual constants have a fixed constant reference tied up to some particular thing within the domain.
b) The correct translation of the statement “Socrates is a philosopher” will be, “Sp” [where s: Socrates, Px: x is a philosopher].
c) The lower case alphabets from ‘a’ to ‘z’ are used to refer to individual constants.
d) The individual variables do not have any fixed reference.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b) c)

d)
True or false?
The correct symbolization of the statement “If anything is found, some owner will be informed” is: ‘(∀x) (Fx ⇒ (Ox ⇒ Iy))’. [Where Fx: x is found; Ox: x is owner; Iy: y will be informed.]
a) True
b) False

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)