

NAME :- KRUNAL RANK

ROLL No :- U18C0081

CLASS :- BTECH 4TH YEAR

SEMESTER :- 7

DIVISION :- B

Ans:

$\sim \text{hate}(\text{marcus}, \text{caesar})$ $\sim \text{roman}(\text{marcus}) \vee \text{loyalto}(\text{marcus}, \text{caesar})$
 $\vee \text{hate}(\text{marcus}, \text{caesar})$

$\sim \text{Roman}(\text{marcus}) \vee \text{loyalto}(\text{marcus}, \text{caesar})$ $\sim \text{Pompean}(\text{marcus})$
 $\vee \text{Roman}(\text{marcus})$

$\text{Pompean}(\text{marcus})$ $\sim \text{Pompean}(\text{marcus}) \vee \text{loyalto}(\text{marcus}, \text{caesar})$

$\text{loyalto}(\text{marcus}, \text{caesar})$ $\sim \text{man}(\text{marcus}) \vee \sim \text{ruler}(\text{caesar})$
 $\vee \sim \text{tryassassinate}(\text{marcus}, \text{caesar})$
 $\vee \sim \text{loyalto}(\text{marcus}, \text{caesar})$

$\sim \text{man}(\text{marcus}) \vee \sim \text{ruler}(\text{caesar}) \vee \sim \text{tryassassinate}(\text{marcus}, \text{caesar})$

$\text{man}(\text{marcus})$
 $\text{ruler}(\text{caesar})$ $\sim \text{ruler}(\text{caesar}) \vee \sim \text{tryassassinate}(\text{marcus}, \text{caesar})$

$\text{tryassassinate}(\text{marcus}, \text{caesar})$ $\sim \text{tryassassinate}(\text{marcus}, \text{caesar})$

True.

Ans 2;

alive(marcus, now)

9

\sim dead(marcus, now)

marcus/ x_4 , now/ t_3
10

5

\sim died(marcus, t_5)

marcus/ x_6 , now/ t_6

\sim gt(now, t_5)

\sim Pompean(marcus \vee Markkus/ x_2 , 79/ t_5 \vee \sim gt(now, 79)

\sim Pompean(marcus) \vee \sim gt(2018, 79)

\sim Pompean(marcus)

2

~~True~~ (Hence, Markkus

Ans 3;

\sim Pompean(x_1) \vee died(x_1 , 79)

\sim died(marcus, t)

\vee died(marcus, t)

\sim Pompean(marcus) \vee died(marcus, 79)

79/ t , marcus/ x_1

Pompean(marcus)

died(marcus, 79)