

Translate the following sentences in a propositional logic using sentence letters in the logical symbols (P, Q, R, S... \sim , \vee , $\&$, \rightarrow)

1. Some of his students did not understand. (U: all of his students understand)
2. The solution must be obvious. (S: the solution)
3. My test score was high or I am mistaken. (H: high; M: mistaken)
4. Jayden is unconvinced by his argument. (J: Jayden is convinced)
5. The United States or France has the largest military presence as a part of NATO. (U: United States; F: France)
6. The boys are not unbiased. (B: The boys are biased)
7. Oedipus and Jocasta are on the same team. (O: Oedipus; J: Jocasta)
8. He saw nothing of interest in it. (I: he saw something interesting)
9. Red and blue flags are on the pole. (R: red flags; B: blue flags)
10. I want a hamburger, or I do not want to go to that restaurant. (H: Hamburger; R: I want to go to that restaurant)
11. He saw Melvin but not Bill. (M: Melvin; B: Bill)
12. Either coffee or tea contain caffeine. (C: Coffee; T: Tea)
13. Post- and pre-modern art is always interesting. (P: post; M: pre-modern)
14. Either my stock portfolio is strong or I am losing money. (S: stock; L: losing)
15. This is not all Frank offers. (F: all Frank offers)
16. Either he's a senator or he's not. (S: he is a senator)
17. John does nothing but smoke hashish and play the flute. (S: smoke; F: flute; E: something else)
18. You should leave a good tip or you're a jerk (T: tip; J: jerk)
19. Omar and Mary will be there, however Jerome cannot make it. (O: Omar; M: Mary; J: Jerome)
20. Sally went to China, or Spain, but definitely not Germany. (C: China; S: Spain; G: Germany)