Q1: write a program in a prolog language for these goals:

1. goal : delAll (3,[1,3,3,5,3],X). X=[1,5]
2. goal : delAlloc (2,[1,9,5,2,8],X). X=[1,5,2,8]
3. goal : dif ([1,2,3,1],[5,1,3,9,3],X). X=[2] (10 marks)

Q2: A: convert the following sentence in natural language to a predicate logic?
   1. Those people who are read are smart. (10 marks)
   2. Sally eats the same food that Tom eat.
   3. Anything anyone eats and isn’t killed by is a food.
   4. Ali is a man.
   B: write a program in a prolog language to delete the last element from list?

Q3 A: what are the types of knowledge representation? (10 marks)

B: All the people who are not poor and smart are happy. These people who read
   Are not stupid. John can read and is wealthy. Happy people have exciting
   Lives. By using resolution theorem can anyone be found with an exciting
   Life?

Q4: A: define the following? (10 marks)
   1- Knowledge engineering.
   2- User interface.
   3- A.I technique.
   4- Knowledge base editor.
   B: write a program in prolog language to print the letters of string, every letter
   On the line?

Q5 A: write a program in prolog language to read string and back it’s substring in
   List?

B: write a program in prolog language to print this sequence
   0 1 1 2 3 5 8 13 21 (10 marks)

Q6 A: what are the different between the knowledge and data?
   B: represent these sentences with a conceptual graph?
   1- Ahmed gave Ali the ball.
   2- The dog scratches its ear with its paw. (10 marks)

GOOD LUCK