## Question 1

[a] 
$$c == a +b \parallel !flag$$
  
 $14 == 6 + 9 \parallel !1$ 

**False** 

True

**False** 

[d] 
$$!(a > 5 || c < a + b)$$
  
 $!(6 > 5 || 14 < 6 + 9)$ 

**False** 

## Question 2

[b] water level >0.1 and water level<1.5 water level > 0.1 && water level < 1.5

[c] year/4 = True  
year 
$$\%$$
4 == 0

ear/4 = True [e] y > x and y < z  
year 
$$\%$$
4 == 0 y > x && y < z

[f] w = 6 or w < 3  
w = 6 
$$\parallel$$
 w < 3

## Question 3

fingerprint = F

Retinal Scan = R

Card = C

 $(F \&\& R) \parallel (F \&\& C) \parallel (C \&\& R) \parallel (F \&\& R \&\& C)$ 

## Question 4

Section 1-s1

Section 2 - s2

Section 3 - s3

Average mark – AVG

(s1 > 70 && s2 > 70 && s3 > 70) && ((s1+s2+s3)/3 > 75)