



4.1.1 Relational & Boolean Operations

1) State what each of the following relational operators does:

- a) ==
- b) <
- c) <=
- d) !=

[4 marks]

2) Explain the difference between the Boolean operations OR and XOR.

[2 marks]

3) The program shown in Figure 1 checks whether a person is allowed to enter an event.

Figure 1

```
age = 18
has_ticket = True
staff = False
if age >= 18 and has_ticket:
    print("Entry allowed.")
```

a) Explain why the condition evaluates to True.

[2 marks]

b) Write a condition that would allow entry if the person is either both at least 18 year old and has a ticket; or if the person is a staff member.

[1 mark]

