Name: Class: Mark:

1. A website allows new users to sign-up by completing a form.

(a) The signup form asks users to enter their password twice. Explain why it asks   
users to enter the same data. [2]

(b) The signup form also asks that the password is between 8 and 20 characters.   
State the name of the validation check required. [1]

(c) If the user does not complete the textbox for their email address, the form will not   
allow the user to sign-up and an error message will be given. State the name of   
the validation check required. [1]

2. A program for a parcel delivery company gathers the following inputs:

* The weight of the parcel in kg, which must be a whole number between   
  1 and 10 kg. You can assume that the user enters and integer
* The longest length of the parcel, which must be between 1 and 100 cm. You can assume that the user enters and integer
* Whether the user accepts the terms and conditions

(a) State the type of validation that is used for both the weight and length of the parcel. [1]

(b) State the type of validation that is used for whether the user accepts the terms   
and conditions. [1]

(c) Write a program below that:

* accepts and validates the three inputs
* if any input is invalid, “Invalid input” will be displayed and the user will be asked for the input again
* at the end of the program, once all inputs have been entered and validated, the program will say “Package accepted” [9]

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[Total 15 marks]