

Cambridge
International
AS & A Level

Cambridge International Examinations
Cambridge International Advanced Subsidiary and Advanced Level

CANDIDATE
NAME

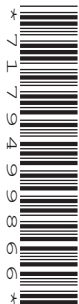
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CENTRE
NUMBER

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INFORMATION TECHNOLOGY

9626/32

Paper 3 Advanced Theory

October/November 2018

1 hour 45 minutes

Candidates answer on the Question Paper.

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are not allowed to be used on this paper.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

Any businesses described in this paper are entirely fictitious.

This document consists of **16** printed pages.

- 5 Quintin is a programmer who writes code in HTML and JavaScript for use in online forms. The code is developed and 'white-box' tested before being used.

Quintin is developing the code below. He has added comments to the code. The code asks a user to input two numbers and adds the numbers together. It also displays the total and whether or not it is greater than 10.

```
<html>
<body>

<!-- the next six lines collect the two numbers to be added-->

<br/>Enter first number:
<input type="number" id="nm1" name="num1">
<br/><br/>Enter second number:
<input type="number" id="nm2" name="num2">
<p id="add"></p>

<script>
  function myaddfunction() {
//the next line assigns the first number input to the variable y
    var y = document.getElementById("nm1").value;
//the next line assigns the second number input to the variable z
    var z = document.getElementById("nm2").value;
//the next line adds the two numbers and assigns the result to the variable x
    var x = +y + +z;
//the next line checks if x is greater or not greater than 10 and reports
accordingly
    var A = (x >10) ? x+ " is greater than 10":x+ " is not greater
than 10";
//the next line prints the results onto the page
document.getElementById("add").innerHTML = A ;
  }
</script>
<!-- the next two lines asks the user to click the button and then the script
is executed
<p>Click the button to calculate the total.</p>
<button onclick="myaddfunction()">Add the numbers</button>
<br/>
  </body>
</html>
```


(b) Explain why it is good practice that Quintin places his JavaScript code in external files rather than embeds the code in the actual page code.

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7 The table shows part of a database used to control the level of stock items in a clothing store. Reordering is done when the number left in stock reaches or falls below the minimum level allowed by the store management.

Item_Code	Description_of_Item	Item_Price	Current_Stock_Level	Minimum_Stock_Level_Allowed	Quantity_to-be_Reordered
XYP234	Walking boots (pair)	\$128.50	16	15	10
ABG765	Jackets	\$99.56	15	10	15
SCC653	Gloves (pair)	\$36.99	23	20	25
SOX785	Socks (pair)	\$25.99	33	30	50
XYT981	Scarf	\$34.45	16	10	20

A customer purchases two pairs of walking boots, three pairs of socks and a scarf. The items each have a barcode and are scanned at the checkout when purchased.

Describe, in detail, the processes that would occur when the purchases have been made to ensure that the appropriate new orders are placed to maintain the stock levels.

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8 Evaluate the use of the infra-red method of data transmission in wireless communications.

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9 A software development company uses throw away prototyping to develop parts of a new system.

(a) Give **one** reason why the company would use throw away prototyping.

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(b) Describe **two** drawbacks to the company of using throw away prototyping.

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