CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge Career Award in Information and Communications Technology
Advanced Level

WEBSITE PROGRAMMING **5206/A**

Optional Module: Practical Assessment

2003

1 hour

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Make sure that your name, Centre number and candidate number are shown on each printout that you are asked to produce.

Carry out **every** instruction in each task.

Tasks are numbered on the left hand side of the page, so that you can see what to do, step by step. On the right hand side of the page for each task you will find a box which you can tick (✓) when you have completed the task; this checklist will help you to track your progress through the assessment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assessment put **all** your printouts into the Assessment Record Folder.

This document consists of **4** printed pages.

UNIVERSITY of CAMBRIDGE
Local Examinations Syndicate

[Turn over

You work for Hothouse Design and are developing a system for the Inuit Gallery which will allow the gallery to enter details of the sculptures for sale or which have previously been sold.

		✓	
1	Download the file **AWA03SCU.CSV** from http://www.hothouse-design.co.uk/2003webproga to your own work area.	☐	
2	Create a table in a database suitable for use with your web server and import the file **AWA03SCU.CSV** into this table. The fields are *artist, description, sold, origin, price* and *year*	☐	
3	On a new web page create a form which looks like the diagram below, with: • **Artist**, **Description** and **Price** as simple text input boxes • **Material** choice as option (radio) buttons • **Sold?** as a check box • **Region** as a list box • **Save** as a submit button The form action should open a page or script which can validate and save the data to a database.	☐	**1.1.1** **1.1.2** **1.1.3** **1.1.4** **1.1.5**

Inuit Gallery

Please fill in the information below:

Artist:

Description:

Price:

Material: Steatite O Bone O Sold? ☐

Region

Arctic Bay
Clyde River
Cape Dorset
Lake Harbour

Save

		✓	
4	Create a script which processes the data. It should make the following checks: Length of *description* < 20 characters *price* is numeric If either of these checks fails, the script should return a page to the browser which shows the data entered and the error message **Data is not valid**	☐	**2.1.1** **2.1.2** **2.3.1**
5	If there are no errors, then write code which will store the data as a new record in the database you created. In the *material* field store **1** if Steatite is chosen or **2** if Bone is chosen. In the *sold* field store **yes** if the box is checked or **no** if it is not checked. In the *region* field store the region name as the full string (e.g. **Arctic Bay**). In the *artist*, *description* and *price* fields store the text as entered. Write a page for the browser which shows the data and says **Your data has been saved**.	☐	**3.1.1**
6	Use your web form to enter data for the following sculpture: Artist: **SAQU Manomie** Description: **Owl in Flight** Price: **295** Material: **Steatite** Sold: **No** Region: **Lake Harbour** Click *Save* and print the page which appears.	☐	**3.1.1**
7	Use your web form to enter data for the following sculpture: Artist: **IQALUK Josie** Description: **Bear and Face Spirits** Price: **450** Material: **Bone** Sold: **Yes** Region: **Cape Dorset** Click *Save* and print the page which appears.	☐	**3.1.1**
8	Create a web page which selects records from the table in your database for all the sculptures from **Lake Harbour** and shows the *description, artist, price* and *region*. Open this page and print it.	☐	**2.2.1** **2.2.2**
9	Print out the page created at step 3 showing the HTML.	☐	**4.1.1**

[Turn over

10 Print out the page(s) and scripts which you used to validate and save the data showing the HTML and code. On your printout highlight those portions of the code which: ☐ **4.1.2**

- check the length of *description*
- check *price* is numeric
- write data to the database
- write the confirmation page
- write the error page.

(This highlighting may be done after the 1 hour allowed for the paper.)

CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge Career Award in Information and Communications Technology
Advanced Level

WEBSITE PROGRAMMING **5206/B**

Optional Module: Practical Assessment

2003

1 hour

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Make sure that your name, Centre number and candidate number are shown on each printout that you are asked to produce.

Carry out **every** instruction in each task.

Tasks are numbered on the left hand side of the page, so that you can see what to do, step by step. On the right hand side of the page for each task you will find a box which you can tick (✓) when you have completed the task; this checklist will help you to track your progress through the assessment.

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This document consists of **4** printed pages.

UNIVERSITY of CAMBRIDGE
Local Examinations Syndicate

[Turn over

You work in the stationery department at the University of Tawara Beach and are developing a system which will allow staff to order stationery on line. You are preparing some web pages for this purpose.

✓

1 Download the file **AWB03STA.CSV** from http://www.hothouse-design.co.uk/2003webprogb to your own work area. ☐

2 Create a table in a database suitable for use with your web server and import the file **AWB03STA.CSV** into this table. The fields are *description, code, category, price, supplier* and *special* ☐

3 On a new web page create a form which looks like the diagram below, with: ☐ **1.1.1**

- **Description**, **Code** and **Price** as simple text input boxes **1.1.2**
- **Category** choice as option (radio) buttons **1.1.3**
- **Special Order?** as a check box **1.1.4**
- **Supplier** as a list box **1.1.5**
- **Save** as a submit button

The form action should open a page or script which can validate and save the data to a database.

University of Tawara Beach Stationery Office

Please fill in the information below:

Description:

Code:

Price:

Category: Consumable O Non-consumable O Special Order? ☐

Supplier

Dudley
XMA
CBC
Wetherbys

Save

		✓	
4	Create a script which processes the data. It should make the following checks: Length of *description* < 30 characters *code* is numeric If either of these checks fails, the script should return a page to the browser which shows the data entered and the error message **Data is not valid**	☐	**2.1.1** **2.1.2** **2.3.1**
5	If there are no errors, then write code which will store the data as a new record in the database you created. In the *category* field store **1** if consumable is chosen or **2** if non-consumable is chosen. In the *special* field store **Y** if the box is checked or **N** if it is not checked. In the *supplier* field store the supplier as the full string (e.g. **Dudley**). In the *description*, *code* and *price* fields store the text as entered. Write a page for the browser which shows the data and says **Your data has been saved.**	☐	**3.1.1**
6	Use your web form to enter data for the following item: Description: **Ball Pen Blue** Code: **9015** Price: **0.25** Category: **Consumable** Special Order?: **No** Supplier: **Dudley** Click *Save* and print the page which appears.	☐	**3.1.1**
7	Use your web form to enter data for the following item: Description: **Fineliner Red** Code: **1A25** Price: **1.50** Category: **Consumable** Special Order?: **No** Supplier: **Dudley** Click *Save* and print the page which appears.	☐	**3.1.1**
8	Create a web page which selects records from the table in your database for all the items from **Dudley** which are **not** special order and shows the *description, code, price* and *supplier*. Open this page and print it.	☐	**2.2.1** **2.2.2**
9	Print out the page created at step 3 showing the HTML.	☐	**4.1.1**

[Turn over

10 Print out the page(s) and scripts which you used to validate and save the data showing the HTML and code. On your printout highlight those sections of the code which: ☐ **4.1.2**

- check the length of *description*
- check *code* is numeric
- write data to the database
- write the confirmation page
- write the error page.

(This highlighting may be done after the 1 hour allowed for the paper.)

CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge Career Award in Information and Communications Technology
Advanced Level

WEBSITE PROGRAMMING **5206/C**

Optional Module: Practical Assessment

2003

1 hour

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Make sure that your name, Centre number and candidate number are shown on each printout that you are asked to produce.

Carry out **every** instruction in each task.

Tasks are numbered on the left hand side of the page, so that you can see what to do, step by step. On the right hand side of the page for each task you will find a box which you can tick (✓) when you have completed the task; this checklist will help you to track your progress through the assessment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assessment put **all** your printouts into the Assessment Record Folder.

This document consists of **3** printed pages.

UNIVERSITY of CAMBRIDGE
Local Examinations Syndicate

You work in the admissions department at the University of Tawara Beach and are developing a system which will allow staff to enter data about interviews and generate lists of interview information.

✓

1 Download the file **AWC03APP.CSV** from http://www.hothouse-design.co.uk/2003webprogc to your own work area. ☐

2 Create a table in a database suitable for use with your web server and import the file **AWC03APP.CSV** into this table. The fields are *StudentNo, QualCode, InterviewTime* (as hhmm)*, InterviewDate* (as ddmmyy), *AcadYear* (as yyyy) and *Confirmed.* ☐

3 On a new web page create a form which looks like the diagram below, with: ☐ **1.1.1**

- **Student Number**, **Interview Date** and **Interview Time** as simple text input boxes **1.1.2** **1.1.3**
- **Academic Year** choice as option (radio) buttons **1.1.4**
- **Confirmed?** as a check box
- **Qualification** as a list box **1.1.5**
- **Save** as a submit button

The form action should open a page or script which can validate and save the data to a database.

University of Tawara Bay - School of Physics

Please fill in the information below:

Student Number:

Interview Date: (ddmmyy)

Interview Time:

Academic Year: 2003/4 O 2004/5 O

Confirmed? ☐

Qualification

- Physics
- Physics with Maths
- Physics with Electronics
- Physics with Computing

Save

4 Create a script which processes the data. It should make the following checks: ☐ **2.1.1**

InterviewDate is 6 characters long **2.1.2**

StudentNo is numeric and starts with 1, 2 or 3

If either of these checks fails, the script should return a page to the browser which shows the data entered and the error message **Data is not valid** **2.3.1**

[Turn over

		✓	
5	If there are no errors, then write code which will store the data as a new record in the database you created. In the *AcadYear* field store **2003/2004** if 2003/4 is chosen or **2004/2005** if 2004/5 is chosen. In the *Confirmed* field store **Yes** if the box is checked or **No** if it is not checked. In the *QualCode* field store the qualification as **CDAA**, **CDAB**, **CDAC** or **CDAD** respectively for the 4 qualifications shown on the form. In the *StudentNo*, *InterviewDate* and *InterviewTime* fields store the text as entered. Write a page for the browser which shows the data and says **Your data has been saved**.	☐	**3.1.1**
6	Use your web form to enter data for the following item: Student Number: **21224** Interview Date: **01Feb03** Interview Time: **1000** Academic Year: **2003/2004** Confirmed?: **No** Qualification: **Physics with Electronics** Click *Save* and print the page which appears.	☐	**3.1.1**
7	Use your web form to enter data for the following item: Student Number: **48115** Interview Date: **29Jan03** Interview Time: **1400** Academic Year: **2003/2004** Confirmed?: **No** Qualification: **Physics with Computing** Click *Save* and print the page which appears.	☐	**3.1.1**
8	Create a web page which selects all records from the table in your database for all the applicants for academic year **2003/2004** taking courses with codes beginning **CDA** and shows the *StudentNo, QualCode, InterviewDate, InterviewTime* and *Confirmed*. Open this page and print it.	☐	**2.2.1** **2.2.2**
9	Print out the page created at step 3 showing the HTML.	☐	**4.1.1**
10	Print out the page(s) and scripts which you used to validate and save the data showing the HTML and code. On your printout highlight the sections of code which: • check the length of *InterviewDate* • check *StudentNo* is numeric and begins with **1, 2** or **3** • write data to the database • write the confirmation page • write the error page. *(This highlighting may be done after the 1 hour allowed for the paper.)*	☐	**4.1.2**