
INFORMATION TECHNOLOGY

9626/04

Paper 4 Advanced Practical
SPECIMEN MARK SCHEME

For Examination from 2017

2 hours 30 minutes

MAXIMUM MARK: 110

This document consists of **12** printed pages.

Task	Answer	Marks
1	Light blue larger circle with dark blue smaller circle inside with a suitable space left for company name	1
	Circles are concentric	1
	White outline of 3 mountains inside smaller inner circle	1
	International Ski Tours fit to the path between circles	1
	Wraps approximately half of circles	1
	Text is clearly visible (1) and has an outline and a shadow (1)	2
	Two skis are present, crossed and do not overlap the larger circle	1
	Skis are layered over inner circle	1
	Skis are layered under mountains and text	1
	Resize the image to 150 pixel × 150 pixel	1
	Save the logo as a .jpg file with the file name IST_logo_ followed by Centre number_candidate number	1

Task	Answer	Marks	
2	Pixels (of different colours)	Objects (with properties)	2
	Larger – or Vector smaller (colour and position of each pixel stored)	Only properties of objects stored	2
	Lose quality/definition (blocky/pixelated)	No loss of quality/definition	2
	.bmp (only)	.svg (only)	2
	.dib, .jpeg, .gif, .tiff, .png	.cgm, .odg, .eps, .xml (not program files .psd, .cdr, .ai etc.)	2

Task	Answer	Marks
3	Logo used created above and correct frame size set	1
	Animation of logo – small to large	1
	Smooth gradual growth of logo size	1
	All three images have been used	1
	Correct text on each image in bottom right-hand corner	1
	Text on each image is clearly visible	1
	Each image is displayed for a suitable length of time	1
	Opacity of each image has been changed to create fading effects	1
	Fading of each image is suitably timed	1
	Opacity of text on each image has been changed to create fading effect	1
	Text on each image fades in time with image	1
	Animation is smooth	1
	Animation is set to play continuously (loops)	1
	File exported	1
	Suitable file format for website used with correct file name, e.g. .mp4, .flv, .fla, .mov	1

Task	Answer	Marks
4	Creates the motion between two objects or images	1
	Gives the animation a smooth appearance	1

Task	Answer	Marks
5	Customer_details.csv has been imported	1
	Customer_id set as Primary key	1
	Customer age field set as number data type	1
	Instructor_details.csv has been imported	1
	Instructor_id set as Primary key	1
	Adult and Child prices set as currency data type	1
	Adult and Child prices formatted as Euro	1
	A bookings table has been created	1
	Booking_id set as Primary key	1
	[Bookings]![Customer_id] set as lookup – Customer details appear for selection	1
	[Bookings]![Instructor_id] set as lookup – Instructor details appear for selection	1
	[Bookings]!Lesson_Time set as lookup or Booking_Times table created	1
	Customer, Instructor, Lesson_Times selection limited to list	1
	Correct times listed	1
	Lesson_Date set as Date/Time data type	1
	Lesson_Date Date/Time data type in short date format	1
	[Customer_Details]![Customer_id] to [Bookings]![Customer_id]relationship	1
	[Instructor_Details]![Instructor_id] to [Bookings]![Instructor_id]relationship	1
	A form has been created to make bookings	1
	The form has a place to select a customer	1
	Customer details appear for selection	1
	The form has a place to select an instructor	1
	Instructor details appear for selection	1
	The instructor choice is limited to the same ability as that of the customer	1
	A query for the record source has been used	1
	Query fields limited to required fields	1
	The customer names automatically display when selected	1
	The customer age automatically displays when selected	1
	The customer level automatically displays when selected	1
	The instructor name automatically displays when selected	1
	The instructor level automatically displays when selected	1
	The form has a place to enter a date	1
	The form has a list to select a booking time	1
	The booking times are limited to the times available	1
	The lesson price matching the customer age is displayed automatically	2
	The company logo is displayed on the form	1

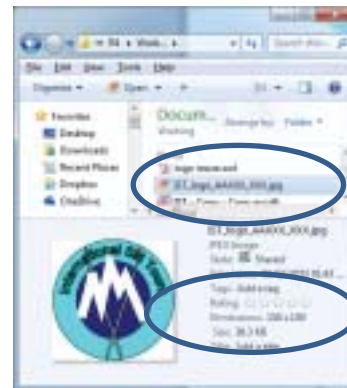
Task	Answer	Marks
5	Navigation buttons are displayed on the form	1
	Next/Previous and First/Last record buttons are displayed	1
	New and delete record buttons are displayed	1

Task	Answer	Marks
6	Logo and candidate details inserted	1
	Alert shows	1
	Alert displays count	1
	Alert displays the correct count	1
	Alert has a suitable message and spacing	1
	Count box displays results	1
	Count matches Alert display	1
	Correct count displayed	1
	A “Well done.....” message is displayed when 3 correct answers	1
	The correct message is displayed	1
	The message is at the response placeholder	1
	The text Enter Draw is displayed	1
	The text Enter Draw appears at the Enter placeholder	1
	The text Enter Draw only appears if 3 correct answers	1
	“Click here....” message is displayed when <3 correct answers	1
	The correct message is displayed	1
	A hyperlink is visible	1
	The text “here” is used as the hyperlink	1
	The hyperlink reloads the page	1
	Repeated submissions do not increment the count	1
	Comment – setting count to 0	1
	Comment – declaring variables	1
	Comment – checking answers – incrementing count – blanking wrong answers	1
	Comment – Alert to display results – count entered on page	1
	Comment – Test count – display response	1

Task	Answer	Marks												
7	3 valid data types listed with valid example of each <table border="1" data-bbox="245 304 1326 609"> <thead> <tr> <th data-bbox="245 304 727 349">Data type</th> <th data-bbox="727 304 1326 349">Example</th> </tr> </thead> <tbody> <tr> <td data-bbox="245 349 727 405">Number – Integer or Floating point</td> <td data-bbox="727 349 1326 405">4, 27, 655354.2, 27.4, 5.63</td> </tr> <tr> <td data-bbox="245 405 727 461">String – Character</td> <td data-bbox="727 405 1326 461">abc, hello world a, F, 3, \$</td> </tr> <tr> <td data-bbox="245 461 727 510">Boolean</td> <td data-bbox="727 461 1326 510">True/false Y/N 1/0 –1/0</td> </tr> <tr> <td data-bbox="245 510 727 560"><i>Also Allow</i></td> <td data-bbox="727 510 1326 560"></td> </tr> <tr> <td data-bbox="245 560 727 609">Array</td> <td data-bbox="727 560 1326 609">GameScores = (124, 99, 121, 105, 132)</td> </tr> </tbody> </table>	Data type	Example	Number – Integer or Floating point	4, 27, 655354.2, 27.4, 5.63	String – Character	abc, hello world a, F, 3, \$	Boolean	True/false Y/N 1/0 –1/0	<i>Also Allow</i>		Array	GameScores = (124, 99, 121, 105, 132)	6
Data type	Example													
Number – Integer or Floating point	4, 27, 655354.2, 27.4, 5.63													
String – Character	abc, hello world a, F, 3, \$													
Boolean	True/false Y/N 1/0 –1/0													
<i>Also Allow</i>														
Array	GameScores = (124, 99, 121, 105, 132)													

Here are some examples of the tasks being worked.

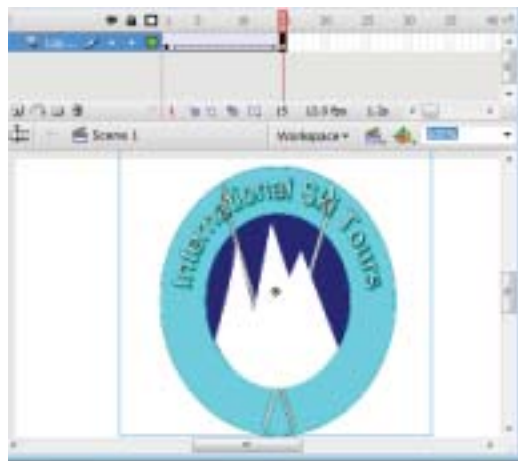
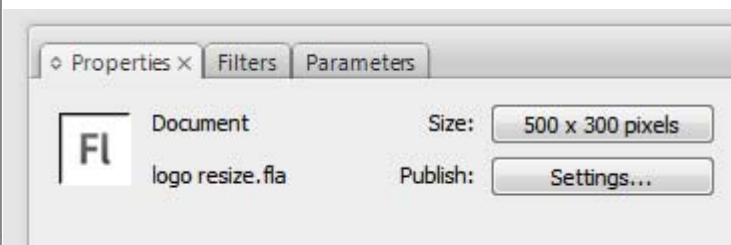
Task 1



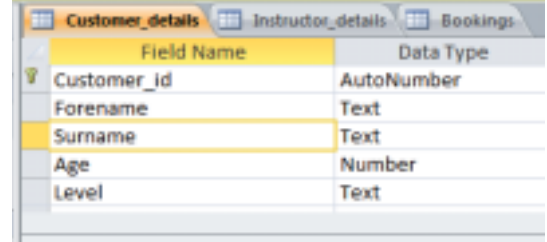
Task 3

Task 3 is marked from the playback of the animation.

EXAMPLES (WHEN USING Adobe Flash)

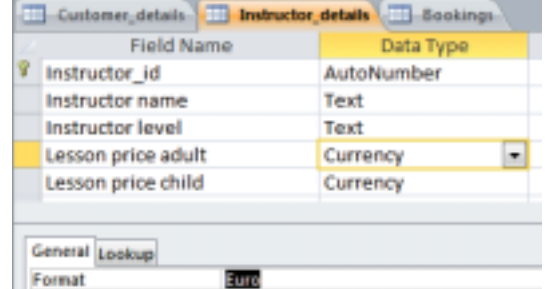


Task 5



Customer_details

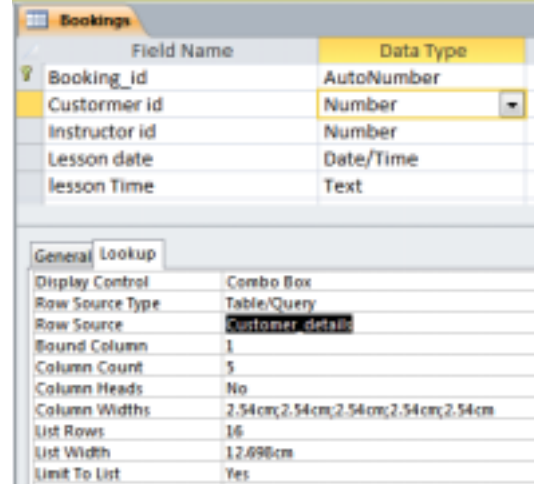
Field Name	Data Type
Customer_id	AutoNumber
Forename	Text
Surname	Text
Age	Number
Level	Text



Instructor_details

Field Name	Data Type
Instructor_id	AutoNumber
Instructor name	Text
Instructor level	Text
Lesson price adult	Currency
Lesson price child	Currency

Format: Euro




Bookings


Field Name	Data Type
Booking_id	AutoNumber
Customer id	Number
Instructor id	Number
Lesson date	Date/Time
lesson Time	Text

General | Lookup

Display Control: Combo Box
Row Source Type: Table/Query
Row Source: Customer_details
Bound Column: 1
Column Count: 5
Column Heads: No
Column Widths: 2.54cm; 2.54cm; 2.54cm; 2.54cm; 2.54cm
List Rows: 16
List Width: 12.698cm
Limit To List: Yes

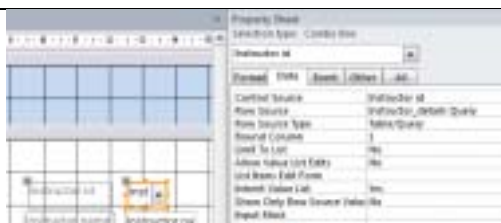
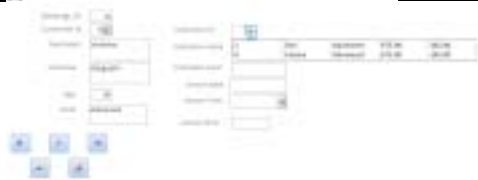
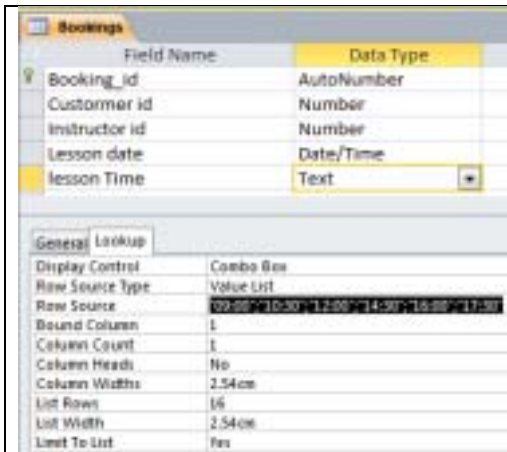


Booking ID	Customer Name	Instructor Name	Lesson Date	Lesson Time	Lesson Price
1	Johann	Schmidt	03	Beginner	
2	Staff	Wendemann	28	Intermediate	
3	Maria	Laferte	03	Beginner	
4	Vera	Dieguez	08	Advanced	
5	Gurdeep	Dieguez	41	Intermediate	
6	John	Smith	31	Beginner	
7	Mikaela	James	27	Intermediate	
8	Patricia	Wedge	02	Advanced	
9	Joseph	Luigi	01	Intermediate	
10	Tara	Lu	30	Advanced	

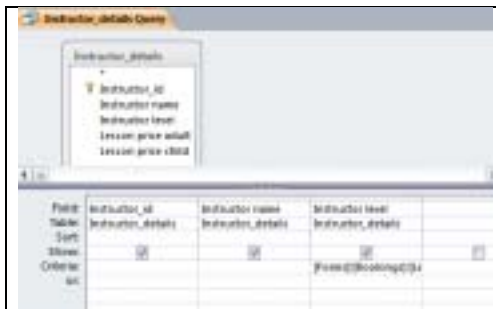




Booking ID	Lesson Price	Lesson Time	Lesson Price	Lesson Price
1	100.00	100.00	100.00	100.00
2	150.00	150.00	150.00	150.00
3	100.00	100.00	100.00	100.00
4	200.00	200.00	200.00	200.00
5	100.00	100.00	100.00	100.00
6	100.00	100.00	100.00	100.00
7	150.00	150.00	150.00	150.00
8	200.00	200.00	200.00	200.00

Task 5 continued



Task 5 continued

													
<p>Bookings_ID <input type="text" value="67"/></p> <p>Customer id <input type="text" value="1"/></p> <p>Forename <input type="text" value="Johann"/></p> <p>Surname <input type="text" value="Schmidt"/></p> <p>Age <input type="text" value="15"/></p> <p>Level <input type="text" value="Beginner"/></p>													
													
<p>Bookings_ID <input type="text" value="71"/></p> <p>Customer id <input type="text" value="1"/></p> <p>Forename <input type="text" value="Johann"/></p> <p>Surname <input type="text" value="Schmidt"/></p> <p>Age <input type="text" value="15"/></p> <p>Level <input type="text" value="Beginner"/></p> <p>Instructor id <input type="text" value="5"/></p> <p>Instructor name <input type="text" value="Nikos"/></p> <p>Instructor level <input type="text" value="Beginner"/></p> <p>Lesson date <input type="text" value="02/11/2017"/></p> <p>Lesson Time <input type="text" value="13:00"/></p> <p>Lesson Price <input type="text" value="435.00"/></p> <table border="1"> <thead> <tr> <th>Instructor id</th> <th>Instructor name</th> <th>Instructor level</th> <th>Lesson date</th> <th>Lesson Time</th> <th>Lesson Price</th> </tr> </thead> <tbody> <tr> <td><input type="text" value="5"/></td> <td><input type="text" value="Nikos"/></td> <td><input type="text" value="Beginner"/></td> <td><input type="text" value="02/11/2017"/></td> <td><input type="text" value="13:00"/></td> <td><input type="text" value="435.00"/></td> </tr> </tbody> </table> <p>Lesson Price <input type="text" value="435.00"/> (Age)=15, (Lesson price adult),(Lesson price child)</p>	Instructor id	Instructor name	Instructor level	Lesson date	Lesson Time	Lesson Price	<input type="text" value="5"/>	<input type="text" value="Nikos"/>	<input type="text" value="Beginner"/>	<input type="text" value="02/11/2017"/>	<input type="text" value="13:00"/>	<input type="text" value="435.00"/>	
Instructor id	Instructor name	Instructor level	Lesson date	Lesson Time	Lesson Price								
<input type="text" value="5"/>	<input type="text" value="Nikos"/>	<input type="text" value="Beginner"/>	<input type="text" value="02/11/2017"/>	<input type="text" value="13:00"/>	<input type="text" value="435.00"/>								
<p>International Ski Tours Bookings Form</p>  <p>Bookings_ID <input type="text" value="71"/></p> <p>Customer id <input type="text" value="1"/></p> <p>Forename <input type="text" value="Johann"/></p> <p>Surname <input type="text" value="Schmidt"/></p> <p>Age <input type="text" value="15"/></p> <p>Level <input type="text" value="Beginner"/></p> <p>Instructor id <input type="text" value="5"/></p> <p>Instructor name <input type="text" value="Nikos"/></p> <p>Instructor level <input type="text" value="Beginner"/></p> <p>Lesson date <input type="text" value="02/11/2017"/></p> <p>Lesson Time <input type="text" value="13:00"/></p> <p>Lesson Price <input type="text" value="435.00"/></p>													

Task 6

Solution for information only – task is marked from outcomes on the webpage.

```
<SCRIPT LANGUAGE="JavaScript">
// set count to zero
var c=0;

//declare function
function myFunction() {

// declare and initialise answer variables

var first=Number(Answer1.value);
var second=Number(Answer2.value);
var third=Number(Answer3.value);

//declare and initialise hyperlink variable
var str = "here";
var result = str.link("IST.html");

//test answers
if(first=="2"){c++} else {Answer1.value=""}

if(second=="3") {c++} else {Answer2.value=""}

if (third=="2") {c++} else {Answer3.value=""}

//Display Alert with count of correct answers

window.alert (c + " "+"correct answers");

//Display number of correct answers on page
count.value=c;

//Test Results
if (c==3)

// Display Conditional message and hyperlink
{
document.getElementById("response").innerHTML = "Well done.";}
else
{document.getElementById("response").innerHTML = "Click "+ result + " to try
again";
}
if (c==3)
{
//Display Final text
document.getElementById("Enter").innerHTML =
"Enter Draw";
}
c=0
}

</SCRIPT>
```

Task 6 continued

Insert your name, Centre number and candidate number here.	International Ski Tours	
--	--------------------------------	---

JavaScript Alert x

0 correct answers

Number of correct answers

Click [here](#) to try again

JavaScript Alert x

3 correct answers

Number of correct answers

Well done

Prize Draw Quick Quiz

Enter Draw

Enter your choices 1,2,or 3 in the answer boxes