UNSW
THE UNIVERSITY OF NEW SOUTH WALES
SYDNEY • AUST

PAPER H

Practice Questions

ICAS

International Competitions and Assessments for Schools

COMPUTER SKILLS

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED.

STUDENT'S NAME:

Read the instructions on the **ANSWER SHEET** and fill in your **NAME, SCHOOL** and **OTHER INFORMATION**.
Use a 2B or B pencil.
Do **NOT** use a pen.
Rub out any mistakes completely.

You **MUST** record your answers on the **ANSWER SHEET**.

Mark only **ONE** answer for each question.
Your score will be the number of correct answers.
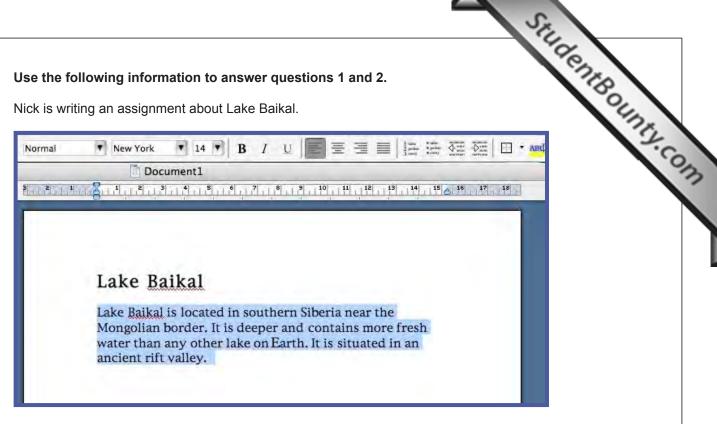Marks are **NOT** deducted for incorrect answers.

Use the information provided to choose the **BEST** answer from the four possible options.
On your **ANSWER SHEET** fill in the oval that matches your answer.

Educational Assessment Australia

Use the following information to answer questions 1 and 2.

Nick is writing an assignment about Lake Baikal.

1. What are the font type and size of the highlighted text?

    (A)   Normal, 14 pt
    (B)   New York, 14 pt
    (C)   Normal, bold
    (D)   New York, bold

2. What alignment has Nick used on the highlighted text?

    (A)   left
    (B)   centre
    (C)   right
    (D)   justified

3. Ava created a spreadsheet in order to track her school supply expenses.

	A	B	C	D
1	Item name	No of items	Cost per item	Subtotal
2	Notebooks	4	$1.50	$6.00
3	Pens	3	$1.00	$3.00
4	Pencil case	1	$3.00	$3.00
5				
6			TOTAL COST	$12.00
7				
8			Mean cost per item	$1.50

Cell D6 contains the total amount of money that Ava spent on her school supplies. What formula would you find in cell D6?
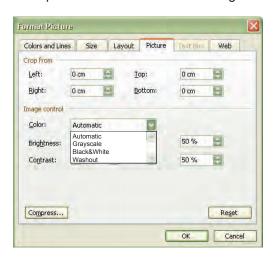
(A)   =SUM(D2:D4)   (B)   =SUM(C2:C4)   (C)   =SUM(B2:B4)   (D)   =SUM(B2:D4)

4. Rani wanted to use this photo as the background to the text in a word processing document.

Photo 1

She opened the Format Picture dialogue box.

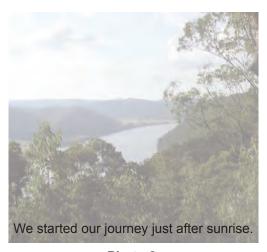
We started our journey just after sunrise.

Photo 2

Which setting from the 'Color' menu in Image control should Rani select so that the text can be read over the picture, as shown in Photo 2?

(A) Automatic   (B) Grayscale   (C) Black & White   (D) Washout
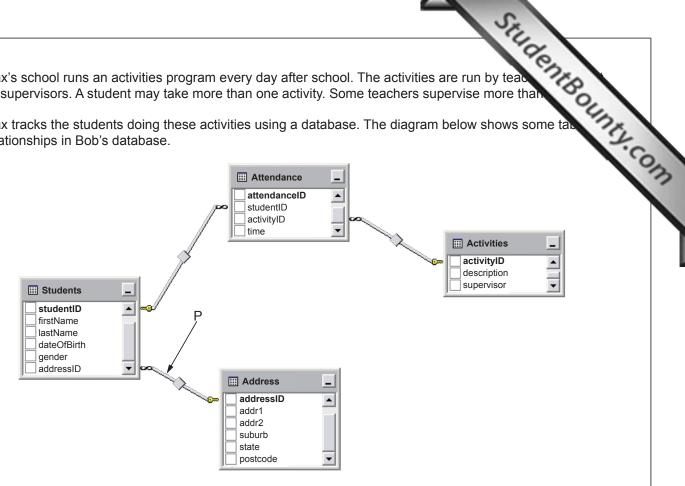
5. This is an example of Rich Text Format code.

{\rtf1\ansi{\fonttbl {\f0 Times New Roman;}}\f0\pard This text is {\b bold}.\par}

What would be the result of this code?

(A) This text is bold.
(B) This **text** is bold.
(C) This text is **bold**.
(D) **This text is bold**.

6. Max's school runs an activities program every day after school. The activities are run by teachers as supervisors. A student may take more than one activity. Some teachers supervise more than one activity.
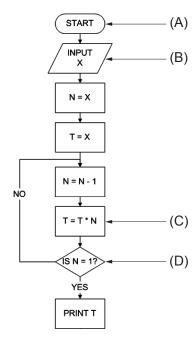
    Max tracks the students doing these activities using a database. The diagram below shows some tables and relationships in Bob's database.

    Attendance
    - attendanceID
    - studentID
    - activityID
    - time

    Activities
    - activityID
    - description
    - supervisor

    Students
    - studentID
    - firstName
    - lastName
    - dateOfBirth
    - gender
    - addressID

    P

    Address
    - addressID
    - addr1
    - addr2
    - suburb
    - state
    - postcode

    Which of the following is represented by the part of the diagram labelled P?

    (A)   a field
    (B)   a table
    (C)   an object
    (D)   a relationship

7. Mia created this flow chart to help her develop a simple program for Mathematics.

    X, T and N are variable names used to store numbers.

    Which symbol on the flow chart below represents a decision?

    START —— (A)

    INPUT X —— (B)

    N = X

    T = X

    N = N - 1
    NO

    T = T * N —— (C)

    IS N = 1? —— (D)
    YES

    PRINT T

8.   A **firewall** is a device which restricts connectivity into or out of a network, based on certain r̶u̶l̶e̶s̶ ̶b̶y̶
     an administrator.
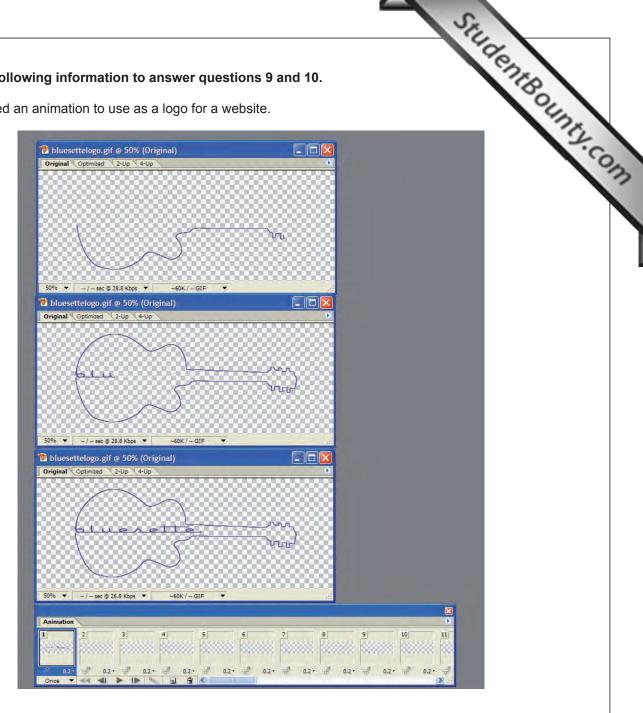
     Alice uses a firewall on her network to restrict traffic to and from the Internet. For the computers in h̶e̶r̶
     network, Alice would like to allow internet access to websites which usually listen on TCP port 80 (http)̶.

     In order for computers on her network to send traffic to web servers on the Internet, which of the following
     types of traffic should Alice allow through her firewall?

	Allow:
(A)	Outgoing from source port TCP 80
(B)	Incoming from source port TCP 80
(C)	Outgoing to destination port TCP 80
(D)	Incoming to destination port TCP 80

Use the following information to answer questions 9 and 10.

Lily created an animation to use as a logo for a website.

9.   Lily formatted the animation with a transparent background to prevent the webpage colour being obscured.

     Which part of the animation frame represents the transparent areas?

     (A)   all the checked areas
     (B)   the outline of the guitar
     (C)   the checked areas inside the outline of the guitar
     (D)   the checked areas outside the outline of the guitar

10. Lily wants to use the final frame of the animation as a static background. She thinks the image will make some of the text on the webpage difficult to read. How can she solve this problem?

     (A)   Fill the image with a solid colour.
     (B)   Format the text on the web pages with very bright colours.
     (C)   Reduce the size of the animation to allow text to show through.
     (D)   Apply a watermark effect to the animation cells to reduce the contrast.

THIS PAGE IS MEANT TO BE BLANK.

StudentBounty.com

The following year levels should sit THIS Paper:

Australia	Year 10
Brunei	Form 5
Indonesia	Year 11
Malaysia	Form 4
New Zealand	Year 11
Pacific	Year 10
Singapore	Secondary 3

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PAPER H | **CS**

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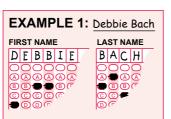
HOW TO FILL OUT THIS SHEET:

USE 2B OR B PENCIL

- Rub out all mistakes completely.
- Print your details clearly in the boxes provided.
- Make sure you fill in only <u>one</u> oval in each column.

EXAMPLE 1: *Debbie Bach*

FIRST NAME	LAST NAME
D E B B I E	B A C H
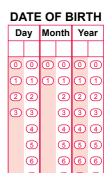
EXAMPLE 2: *Chan Ai Beng*

FIRST NAME	LAST NAME
C H A N	A I B E N G

EXAMPLE 3: *Jamal bin Abas*

FIRST NAME	LAST NAME
J A M A L	B I N A B A S

FIRST NAME to appear on certificate

LAST NAME to appear on certificate

Are you male or female?
◯ Male   ◯ Female

Does anyone in your home usually speak a language other than English?
◯ Yes   ◯ No

School name: _____

DATE OF BIRTH

Day	Month	Year

CLASS (optional)

TO ANSWER THE QUESTIONS
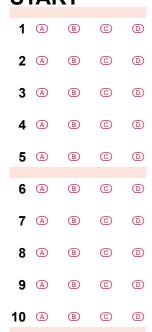
Example: Using a computer to type a report is an example of

(A)   emailing.
(B)   a calculation.
(C)   word processing.
(D)   a computer game.

The answer is <u>word processing</u>, so you would fill in the oval Ⓒ,
as shown.

Ⓐ   Ⓑ   ⬤   Ⓓ   USE 2B OR B PENCIL

START

1   Ⓐ   Ⓑ   Ⓒ   Ⓓ

2   Ⓐ   Ⓑ   Ⓒ   Ⓓ

3   Ⓐ   Ⓑ   Ⓒ   Ⓓ

4   Ⓐ   Ⓑ   Ⓒ   Ⓓ

5   Ⓐ   Ⓑ   Ⓒ   Ⓓ

6   Ⓐ   Ⓑ   Ⓒ   Ⓓ

7   Ⓐ   Ⓑ   Ⓒ   Ⓓ

8   Ⓐ   Ⓑ   Ⓒ   Ⓓ

9   Ⓐ   Ⓑ   Ⓒ   Ⓓ

10 Ⓐ   Ⓑ   Ⓒ   Ⓓ

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QUESTION	KEY	DESCRIPTION OF SKILL	AREA	LEVEL OF DIFFICULTY
1	B	identify the font type and size used in text	2	Easy
2	A	identify the alignment used in text	2	Easy
3	A	identify the correct formula for calculating the total cost	5	Easy
4	D	understand the use of the 'washout' colour setting	4	Medium
5	C	recognise the result of a line of Rich Text Format code	6	Medium
6	D	recognise the symbol for a relationship on a database diagram	5	Medium
7	D	identify the symbol for a 'decision' in a flow chart	6	Medium
8	C	identify the types of traffic allowed through a firewall	4	Medium/Hard
9	A	identify the way in which transparent areas are shown on a graphic	3	Hard
10	D	understand the effect of a watermark on an animation cell	3	Hard

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LEGEND

Area refers to the particular curriculum area or strand assessed by the question.

1. General Skills

2. Word Processing

3. Graphics/Multimedia

4. Internet/Email

5. Spreadsheets/Databases

6. Programming/Scripting

Level of difficulty refers to the expected level of difficulty for the question.

Easy	more than 70% of candidates will choose the correct option
Medium	about 50–70% of candidates will choose the correct option
Medium/Hard	about 30–50% of candidates will choose the correct option
Hard	less than 30% of candidates will choose the correct option