



Singapore Examinations and Assessment Board

Candidate's Guide to SEAB eExam2 System for N(T) Science e-Paper 1



This guide is to help candidates understand how to use
SEAB eExam2 System for N(T) Science e-Paper 1

Outline

a. Candidate's Login

- Exam Centre Key
- Instruction Page for Candidates

b. Navigation of SEAB eExam2 System for N(T) Science e-Paper 1 Exam

- Navigation Guide
- Review Questions
- Highlight Text
- Remove Highlight
- Copy and Paste

c. System Prompts in SEAB eExam2 System

- Reminder of test duration left
- Submission

Annex

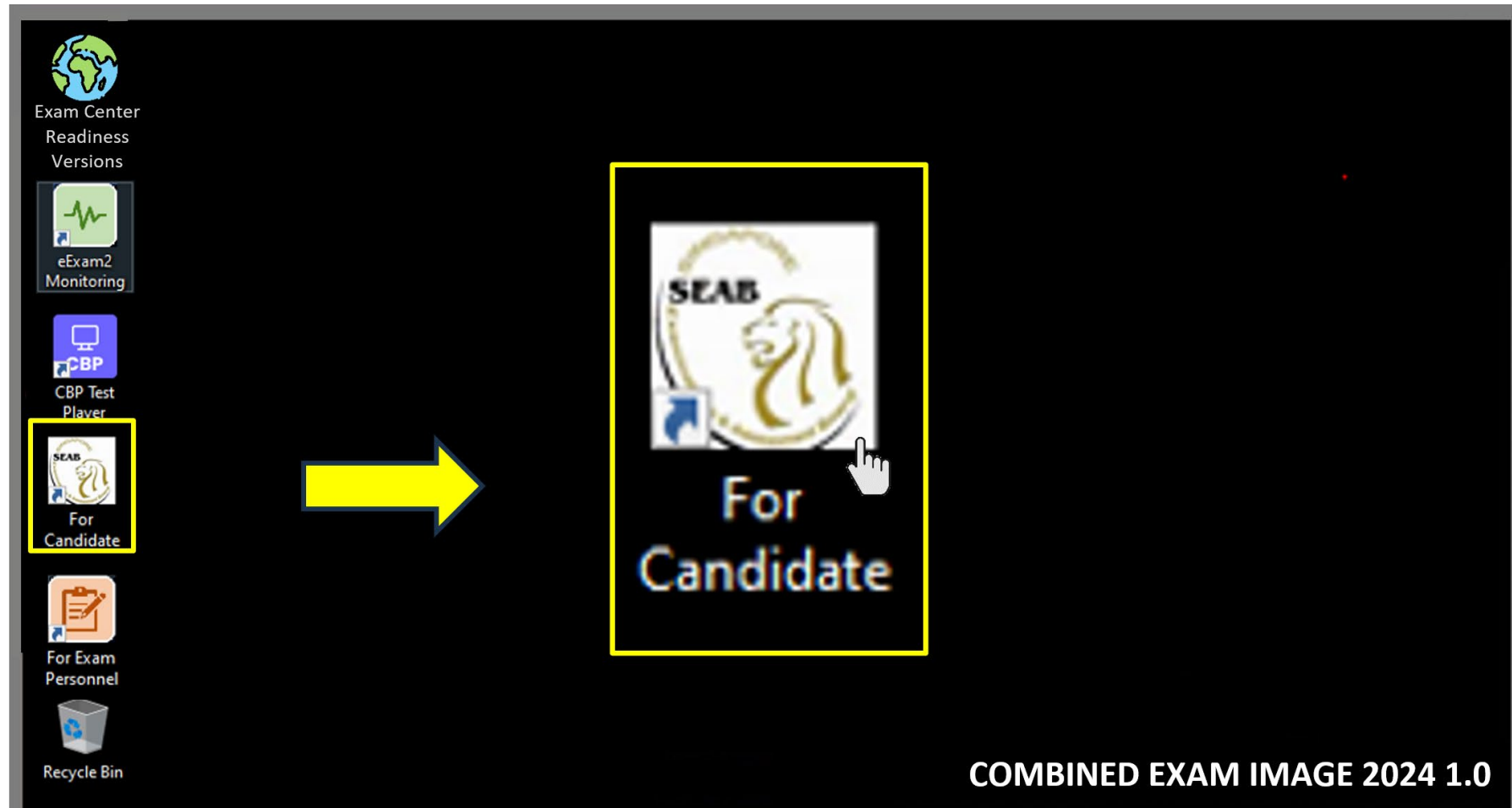
Item Formats available in N(T) Science e-Paper 1

- Multiple-Choice
- Fill-in-the-blank
- Structured Question
- Drag-and-Drop
- Drag and Drop (Image)
- Matching Line
- Checkbox
- Sequencing
- Interactive Stimuli

Candidate's Login



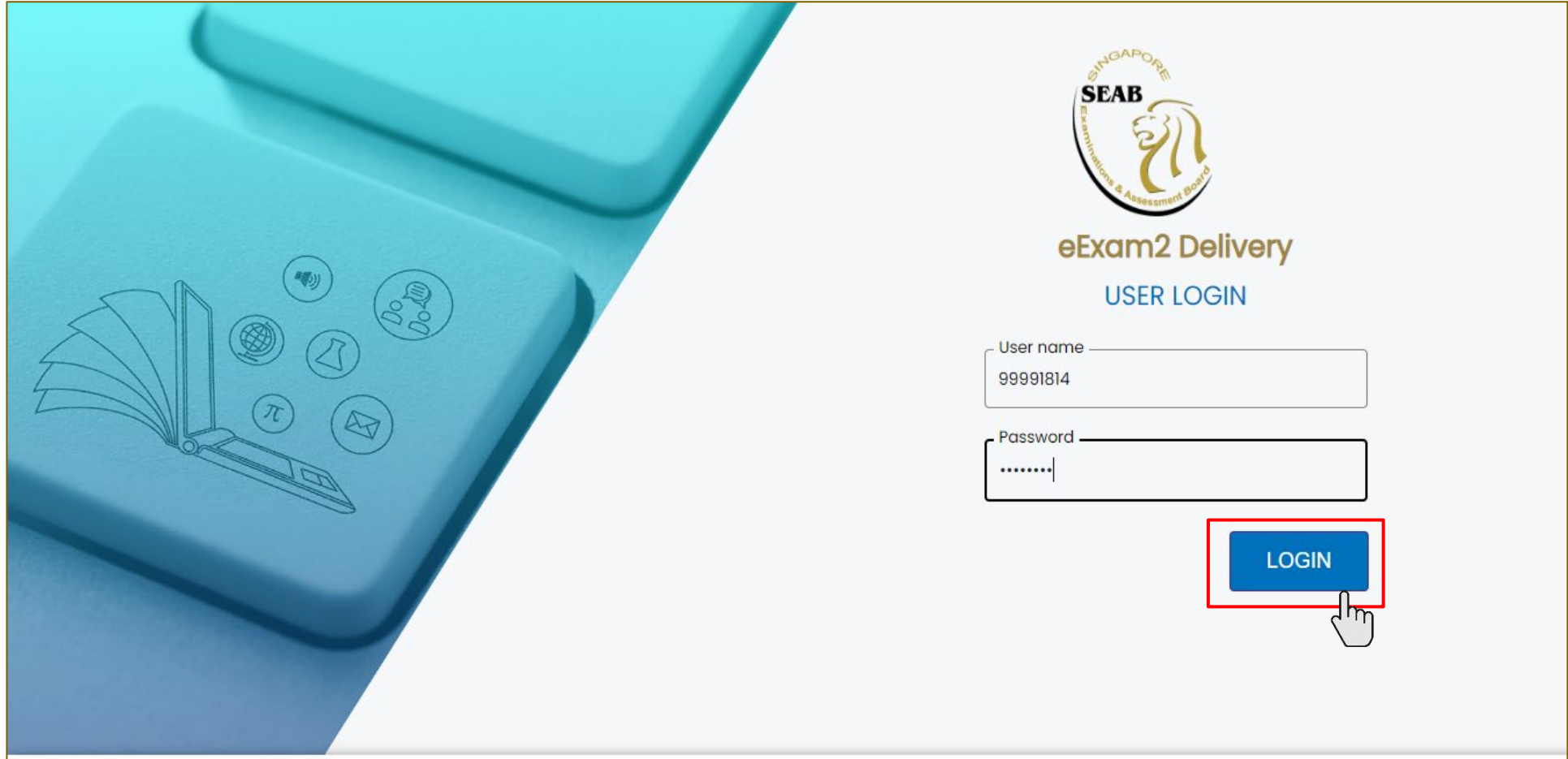
Candidate's Login



Double-click on **For Candidate** icon on the desktop to launch the eExam2 System login page.



Candidate's Login



SINGAPORE
SEAB
Examinations & Assessment Board

eExam2 Delivery
USER LOGIN

User name

Password

LOGIN

To login, enter your username and password, followed by clicking the **LOGIN** icon.

Candidate's login credentials for the Practice Test will be provided by iExam coordinators and e-Sups.

Candidate's Login

Once successfully login, before the start of the paper, please check **Candidate Name** and **NRIC/Identification No.** are displayed correctly.

Candidate Name
TVOCheck1164051520


NRIC / Identification No.

12/Apr/2024

Exam Name	Exam Duration	Extra Time	Start Date/Time	Status	
5148PS-01-EWRITTEN-GCEN-YE-2024	01:15:00	0 min	12-04-2024/15:40:00	Not attempted	<input type="button" value="Start"/>

You will see the **Exam Name** and **Exam Duration** as indicated. Click **Start** to proceed.

Exam Centre Key

 Please check the information below. Click confirm to proceed if the information is correct. Otherwise, inform the invigilator immediately.

1
TVOCheck1164051520

Index No. TVOCheck1164051520	NRIC / Identification No. Axxxx814I	Subject / Paper No. SCIENCE SYLLABUS T_EWRITTEN_YE/01_EWRITTE N_YE	School Name Testing School
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Exam Date / Time
**12-04-2024 / 15:40:00 -
19:40:00**

2

3

1. Check that the Candidate's information displayed is correct.
2. Enter the **Exam Centre Key** provided on the whiteboard by the invigilator.
3. Click Confirm to proceed.

Instruction Page for Candidates

The screenshot shows the NT exam instruction page. At the top left is the NT logo. To its right is the text: "MINISTRY OF EDUCATION, SINGAPORE" and "General Certificate of Education Normal (Technical) Level". Below this is a box containing "SCIENCE SYLLABUS T" and "Paper 1". To the right of this box is a box containing "5148/01" and "Practice Session April 2024" with "1 hour 15 minutes" below it. Further right is a box containing "Check that you are sitting for the correct Paper, Subject Code and Paper number." Below the syllabus box is the heading "INSTRUCTIONS TO CANDIDATES" followed by several lines of text: "This paper consists of two sections – Section A and Section B. Answer all questions in both sections.", "Read each question carefully before answering.", "Please wait for the invigilator's signal before you click 'Start'.", and "The use of an approved scientific calculator is expected, where appropriate." At the bottom left of the instruction page is a "Start" button with a hand cursor icon pointing to it. A box on the right contains the text "Check the paper duration shown is correct." Arrows point from the syllabus box to the subject code box, and from the subject code box to the duration check box.

NT

MINISTRY OF EDUCATION, SINGAPORE
General Certificate of Education Normal (Technical) Level

SCIENCE SYLLABUS T
Paper 1

5148/01
Practice Session April 2024
1 hour 15 minutes

Check that you are sitting for the correct **Paper, Subject Code** and **Paper number**.

Check the paper duration shown is correct.

Start

Read the instructions carefully and click on **Start** button when instructed by the invigilator. The countdown timer for the exam duration will only start after clicking the **Start** button.

Note: This is the instruction page for candidates.

Navigation of SEAB eExam2 System for N(T) Science e-Paper 1 Exam



Navigation Guide

The screenshot shows the top navigation bar of an e-Exam interface. It includes the SEAB logo, the assessment name '5148PS-01-EWRITTEN-GCEN-YE-2024', a candidate ID 'TV0Check1164051520', a timer showing '01:14:30', and a status indicator 'Online'. Below the navigation bar is a question list with a 'Section A' dropdown and numbered buttons for questions 1 through 19. A fast-forward icon is also present. Callout boxes provide instructions: 'Drop-down button to toggle between sections Section A & Section B' points to the 'Section A' dropdown; 'Name of Candidate' points to the candidate ID; 'Countdown Timer. Hide the timer by clicking on the clock icon' points to the timer; 'Fast forward to the other questions' points to the fast-forward icon; and 'Important: Inform the invigilator if e- Exam status is Offline' points to the 'Online' status indicator.

Drop-down button to toggle between sections Section A & Section B

Countdown Timer. Hide the timer by clicking on the clock icon

Name of Candidate

TV0Check1164051520

01:14:30

Section A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

1 Why do farmers often use fertilisers on their crops?

- A to kill pests living on the crop
- B to kill weeds growing with the crop
- C to make the crop grow faster
- D to reduce the acidity of the soil


Fast forward to the other questions


Important: Inform the invigilator if e- Exam status is **Offline**

Note: This is an example of an N(T) Science ePaper 1 question page.

Navigation Guide

Green ticked icon  means that the question is **Attempted**.

Red icon  means the question is **Unattempted**.

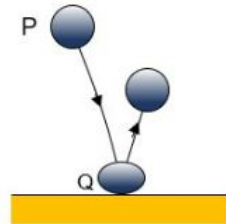
Purple icon  means the question is **Bookmarked**.

Question number in purple coloured box is the current selected question.



3 A ball is held stationary at point P and then dropped so that it bounces on a horizontal surface at point Q.

The diagram shows the path of the ball.



Which row correctly gives the types of energy the ball has at points P and Q?

	P	Q
A	elastic potential energy	gravitational potential energy
B	gravitational potential energy	elastic potential energy
C	gravitational potential energy	kinetic energy
D	kinetic energy	kinetic energy and gravitational potential energy

Navigation Guide



Section A



15

16

17

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33

>

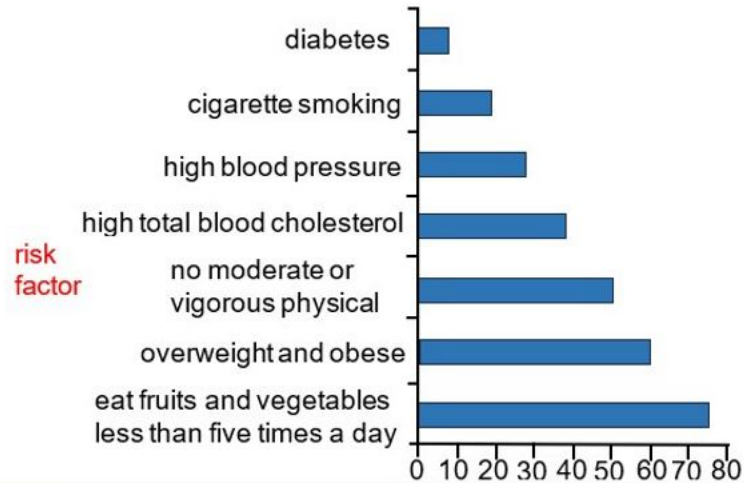


Online

Questions 29 and 30 are both about the information provided below.

The chance of having heart disease can be increased with different risk factors.

The graph shows the percentage of adults in the USA that have different risk factors.



29 Which percentage of the adult population has the overweight and obese risk factor?

- A the data is **not** shown
- B 50
- C 60
- D 75

← Back

Click the scroll down icon ↓ to see more text.

Click **Back** to go to previous question.

Click Review

Review Bookmark Next →

Use **Bookmark** to label question for **Review** later.

Click **Next** to go to the next question.



Review Questions

Review questions

Below is the summary of your answers. You can review your questions in three different ways. The buttons in the lower left-hand corner correspond to these three ways:

1. Click "Review All" if you want to check all of your answers.

2. Click "Review Incomplete" if you want to go to the question(s) you have not answered yet.

3. Click "Review Flagged" if you want to go to the question(s) you bookmarked.

You may also click on the question number to go directly to the question.

Click "Close Review" to go back.

Attempted Unattempted Bookmarked

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34(a)(I)

34(a)(ii) 34(b) 35(a) 35(b) 35(c) 36(a) 36(b)(i) 36(b)(ii) 36(c)

This is a summary of candidate's answers.
The review can be done in three different ways.

- (1) **Review All** if candidate wants to check all the answers.
- (2) **Review Incomplete** if candidate wants to go to the question(s) that is/are yet to be answered.
- (3) **Review Flagged** if candidate wants to go to the question(s) that is/are bookmarked.

(1) (2) (3)

Review All Review Incomplete Review Flagged

Close Review



Highlight Text

Questions 29 and 30 are both about the information provided below.

The chance of having heart disease can be increased with different risk factors.

The graph shows the percentage of adults in the USA that have different risk factors.

A Highlight

30 Which conclusion is supported by the data shown?

- A High blood cholesterol causes high blood pressure.
- B More people smoke than eat fruit and vegetables less than five times a day.
- C People with heart disease are more likely to have diabetes than those without.
- D Poor diet is likely to be one of the biggest causes of heart disease in the USA.


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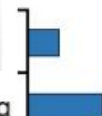
You can highlight **any text(s)** on the questions. To do so, select the required text(s) first and the **Highlight icon**  **Highlight** will appear. Click on the icon to highlight the words.

Remove Highlight

Questions 29 and 30 are both about the information provided below.

The chance of having heart disease can be increased with different risk factors.

The graph shows the percentage of adults in the USA that have different risk factors.




A Remove Highlight

cigarette smoking

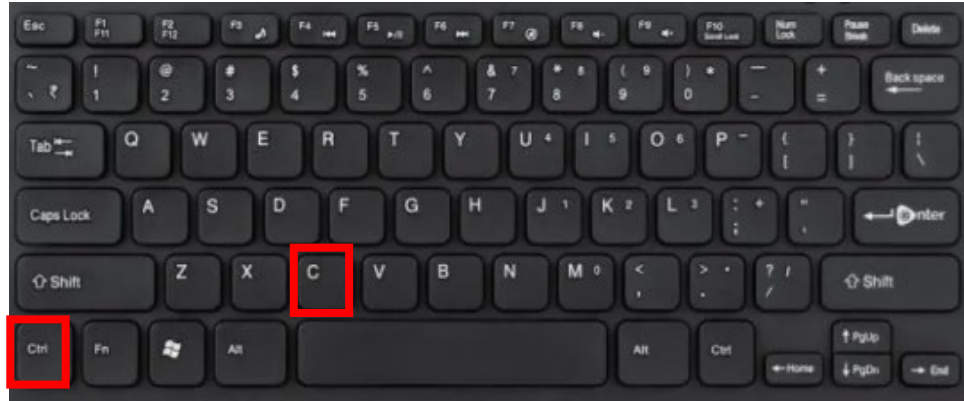
30 Which conclusion is supported by the data shown?

- A** High blood cholesterol causes high blood pressure.
- B** More people smoke than eat fruit and vegetables less than five times a day.
- C** People with heart disease are more likely to have diabetes than those without.
- D** Poor diet is likely to be one of the biggest causes of heart disease in the USA.

To remove the highlight, you can select the highlighted text(s) first and the **Remove Highlight icon**  Remove Highlight will appear. Click on the icon to remove the highlight.

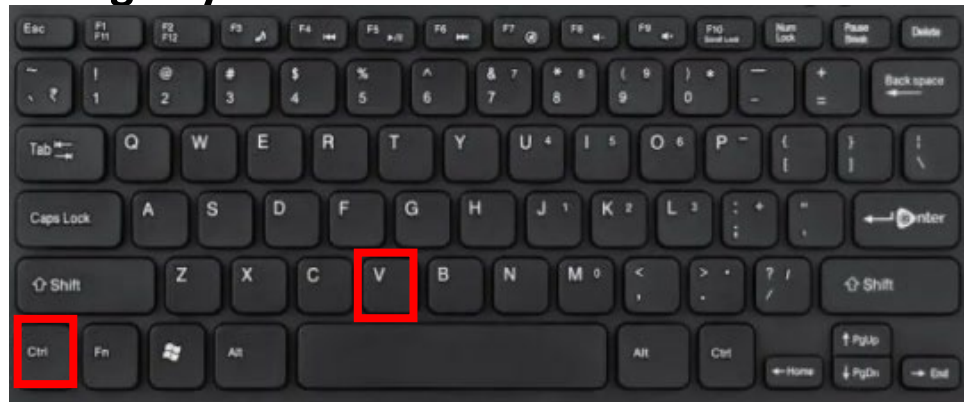
Copy and Paste

Copy using Keyboard



Select the text and use **Ctrl + C** to copy the selected text.

Paste using Keyboard



Use **Ctrl + V** to paste the text(s) on the candidate's response window

Note that Copy and Paste is for Text only.

System Prompts in SEAB eExam2 System



Reminder of test duration left

The screenshot shows a test interface with a reminder dialog box overlaid. The dialog box has a blue header with the word "Reminder" and a white body with the text "Time remaining: 00:15:00" and a purple "OK" button. A hand cursor is pointing at the "OK" button. In the background, there is a question about heart disease risk factors and a bar chart showing the percentage of adults in the USA with different risk factors. The bar chart has two bars: one for "cigarette smoking" and one for "es".

A **reminder** will appear to remind the candidate when there is **15 minutes left** to complete the paper. Click **OK** to close the reminder. Or else, the **reminder** will auto-disappear in 15 seconds.

Submission

Review questions

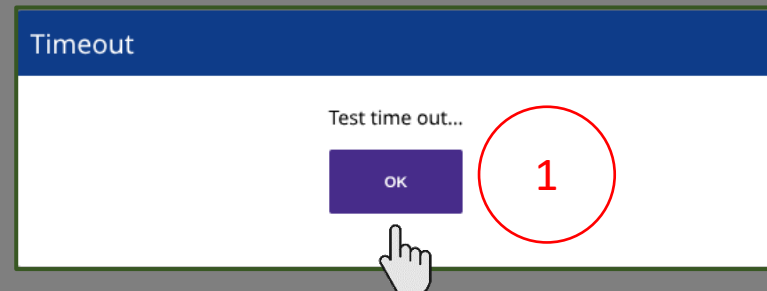
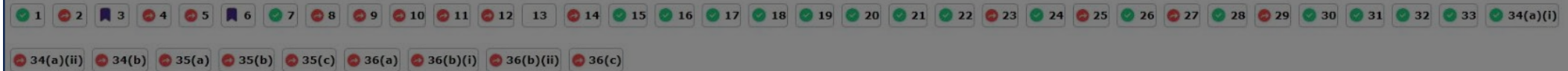
Below is the summary of your answers. You can review your questions in three different ways. The buttons in the lower left-hand corner correspond to these three ways:

1. Click "Review All" if you want to check all of your answers.
2. Click "Review Incomplete" if you want to go to the question(s) you have not answered yet.
3. Click "Review Flagged" if you want to go to the question(s) you bookmarked.

You may also click on the question number to go directly to the question.

Click "Close Review" to go back.

✔ Attempted ✖ Unattempted 📌 Bookmarked



Timeout message and **Submit** button will appear after the countdown timer (exam duration) runs out. Candidate will be brought to the **Review Questions** page.

Review All

Review Incomplete

Review Flagged

SUBMIT

Close Review

Submission

Review questions

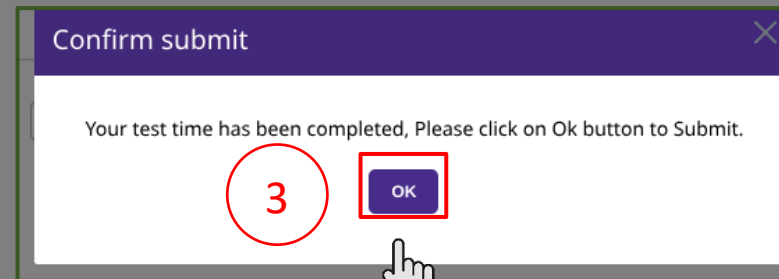
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You may also click on the question number to go directly to the question.

Click "Close Review" to go back.

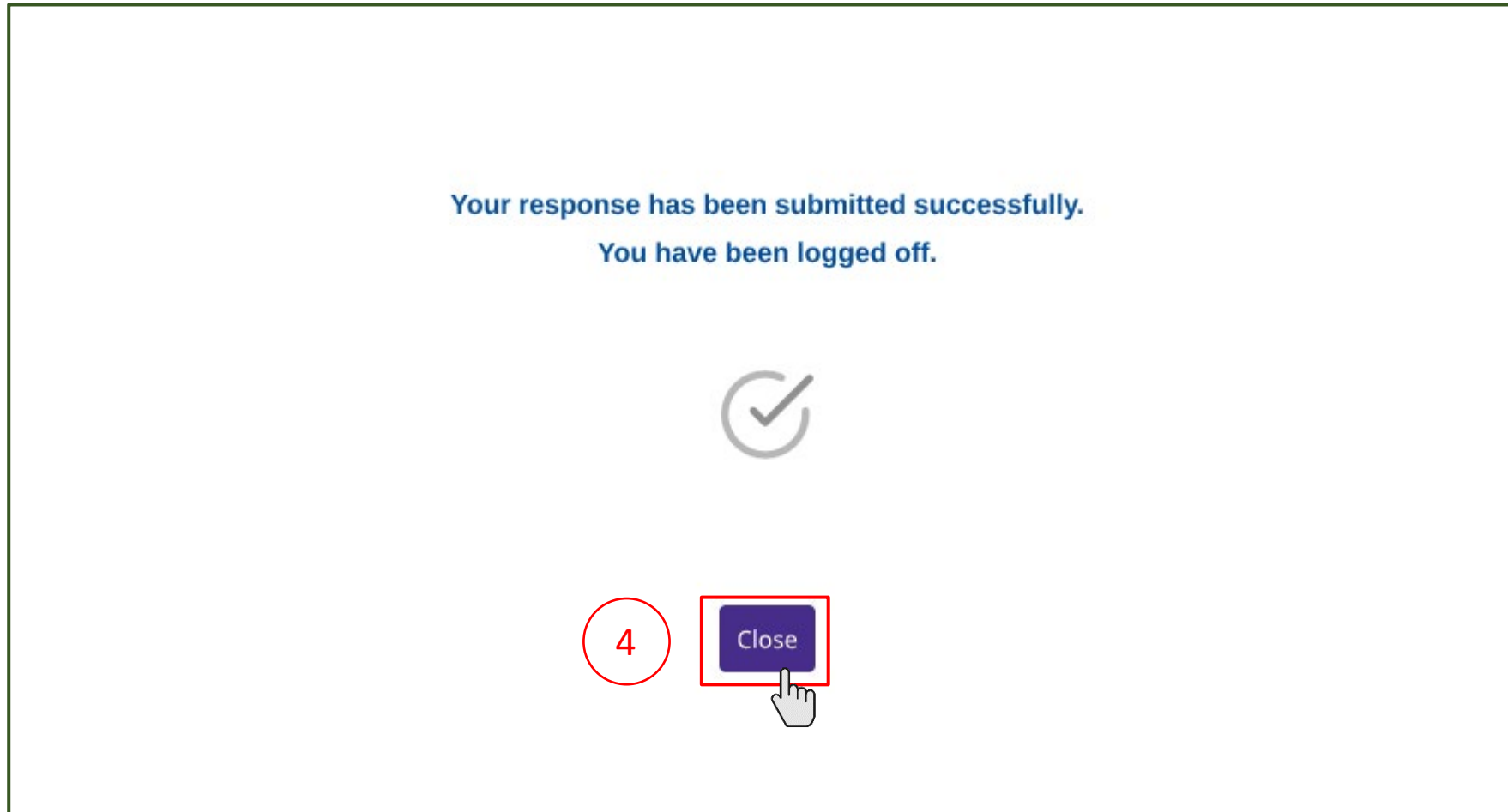
Attempted Unattempted Bookmarked



Click **Submit** to submit your responses at the end of the exam.
Click **OK** to confirm your submission.



Submission



Once your responses are submitted, candidate will see a **message** that the response has been submitted successfully. Click **Close** to end the examination. This will bring you back to the eExam2 login page again.

Item Formats in N(T) Science e-Paper 1

Multiple-Choice

Click ↗ icon to expand respective sections to full screen

Candidate to choose the correct answer from a list of possible options

SEAB Singapore Examinations and Assessment Board Assessment name: 5148PS-01-EWRITTEN-GCEN-YE-2024 TVOCheck1164051520 01:10:29

Section A 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 Online

Questions 29 and 30 are both about the information provided below.

The chance of having heart disease can be increased with different risk factors.

The graph shows the percentage of adults in the USA that have different risk factors.

Risk Factor	Percentage
diabetes	10
cigarette smoking	20
high blood pressure	30
high total blood cholesterol	40
no moderate or vigorous physical	50
overweight and obese	60
eat fruits and vegetables less than five times a day	75

29 Which percentage of the adult population has the overweight and obese risk factor?

- A the data is **not** shown
- B 50
- C 60
- D 75

Stimulus includes text(s) and image(s)

← Back Review Bookmark Next →



Fill-in-the-blank

Beer contains alcohol. When a person drinks beer, the concentration of alcohol in the blood depends on four factors:

- number of glasses of beer drank
- number of hours after drinking
- mass of the person
- gender of the person (female or male).

The tool uses the above four factors to estimate a person's Blood Alcohol Concentration (BAC).

Use the tool by moving the sliders and select the gender to get the BAC estimates. Answer the questions in the spaces provided.

The image shows an interactive simulation interface with four sliders and a gender selection box. The sliders are labeled: 'Number of glasses of beer' (set to 6), 'Number of hours after drinking' (set to 6), 'Mass of person (kg)' (set to 75), and 'Gender' (with a 'Click the appropriate box' instruction and male/female icons). An arrow points from the 'Mass of person (kg)' slider to a text box below.

Stimulus includes text(s), image(s), video(s), animation(s) or interactive simulation

Candidate to type the answers in the response boxes

36 (a) State one health risk of drinking excessive alcohol over a long period of time.

[1]

(b) Estimate the Blood Alcohol Concentration (BAC) in the following people.

2 hours after a male of mass 70 kg drank 4 glasses of beer.

(i) BAC = %

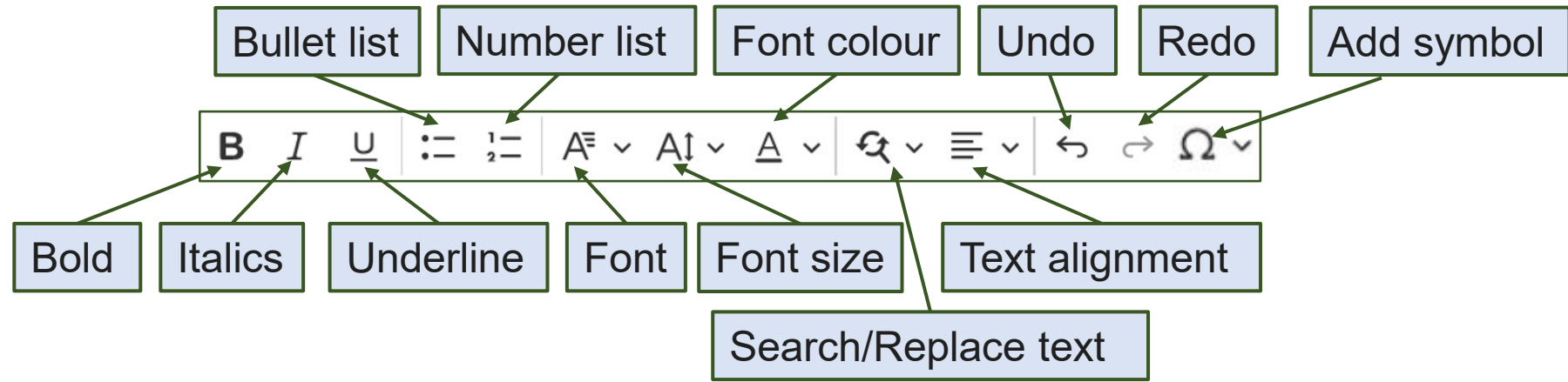
[1]

(ii) 2 hours after a female of mass 70 kg drank 4 glasses of beer.

BAC = %

[1]

Structured Question



The screenshot shows the SEAB assessment interface. At the top, it displays the assessment name "5148PS-01-EWRITTEN-GCEN-YE-2024" and the TVOCheck number "1164051520". The current question is "34(b)", and the user is in "Section B".

The question text is: "In the animation of an experiment shown below, test-tubes 1 and 2 contain limewater. A boy breathes in and out through X. Watch the animation and answer the questions."

The animation shows two test-tubes, labeled "test-tube 1" and "test-tube 2", each containing "limewater". They are connected by a tube with a central opening "X".

The question part (b) asks: "Explain the difference in the change to the limewater between test-tube 1 and test-tube 2 as described in (a). [1]"

The response box contains a rich text editor toolbar and a "Find and replace" dialog box. The "Find and replace" dialog has "Find in text..." and "Replace with..." fields, with "444" entered in the "Replace with..." field. The "Words: 0" counter is visible above the editor.

Navigation buttons at the bottom include "Back", "Review", "Bookmark", and "Next".

Candidate's response box. Candidates to type here

Structured Question

Section B



34(a)(i)

34(a)(ii)

34(b)

35(a)

35(b)

35(c)

36(a)

36(b)(i)

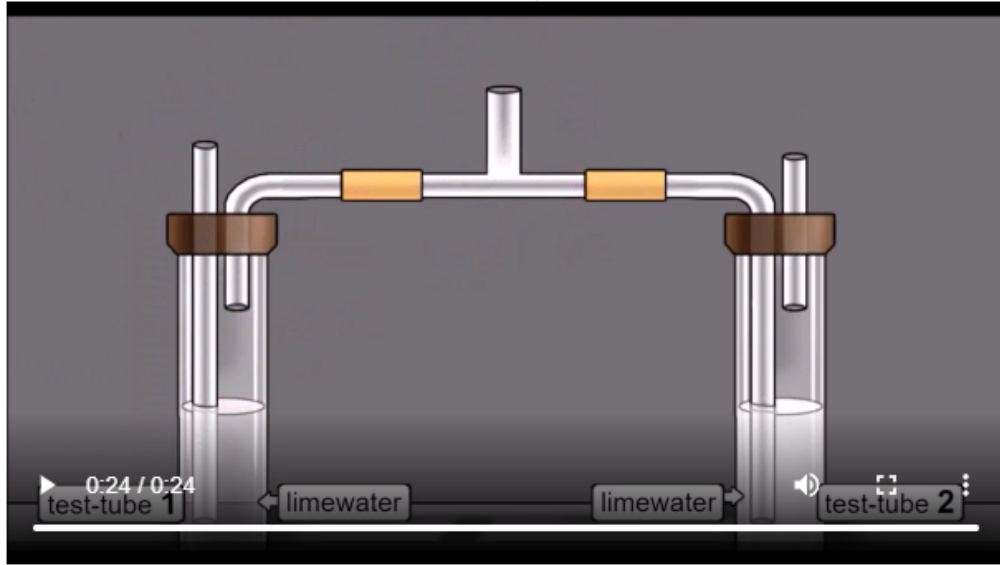
36(b)()



Online

In the animation of an experiment shown below, test-tubes 1 and 2 contain limewater.
A boy breathes in and out through X.

Watch the animation and answer the questions.



(b) Explain the difference in the change to the limewater between test-tube 1 and test-tube 2 as described in (a).

[1]

Words: 0

B I U :: = v ; = v A[≡] v A^I v A v ↺ v ≡ v ↶ ↷ Ω v

Please enter text here...

Special characters

All v

- tʃ ø ð ʃ ʒ dʒ ŋ i: æ ʌ
- a: ɒ ɔ: ɵ ɜ: ʊ u: eɪ aɪ ɔɪ
- aʊ əʊ Iə eə ʊə ← → ↑ ↓ ←
- ⇒ ⇑ ⇓ ⇄ ⇅ ⇆ ⇇ ⇈ ⇉ ⇊ ⇋
- ↓ ⇕ ↵ ↶ ↷ ↸ ↹ ↺ ↻
- £ ¢ € ¤ © ® ¤ € ¤

RIGHTWARDS DOUBLE ARROW

U+21D2

Back

Review

Bookmark

Next

Drag-and-Drop

- 34 Complete the sentences about a transformer using words or phrases in the 'Option Area'. The words or phrases may be used once, more than once or not at all.

[3]

Electricity from a power station goes to a transformer.

This transformer increases the voltage and the current.

The electricity is then transmitted at through a grid of transmission lines.

Option Area :

high current increases decreases step-up step-down high voltage

Candidate can drag (*click and hold*) and (*bring to the selected option and*) drop the correct answer into the response box.

Drag and Drop (Image)

31 The diagram shows part of the human digestive system. [3]
Label the diagram using the words listed.

Click icon to remove response

anus

small intestine

large intestine

gall bladder


stomach

Candidate can drag (*click and hold*) and (*bring to the selected option and*) drop the correct answer into the response box.

Matching Line



33 Use a straight line to connect each wave to its use. [3]

The interface displays two columns of items. The left column contains four grey boxes with the following text: 'microwave', 'infrared', 'ultraviolet', and 'x-ray'. Each box has a small 'x' icon in the top right corner and a blue circle icon on the right side. The right column contains four purple boxes with the following text: 'television remote control devices', 'sterilisation of drinking water', 'satellite communication', and 'baggage scanners at airport'. Each box has a small 'x' icon in the top right corner and a blue square icon on the left side. Red lines connect the blue circle icon of 'microwave' to the blue square icon of 'television remote control devices', and the blue circle icon of 'ultraviolet' to the blue square icon of 'satellite communication'. A hand cursor is shown clicking the blue circle icon of 'microwave'.

Click  icon to remove **the line** connected to this option.

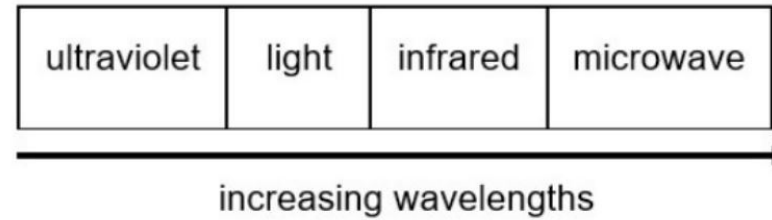
clear all lines by clicking on **CLEAR LINES**



Candidate can match response to by linking the  icon to the  icon
– *mouse click is required to be applied at both (circle & square) icons to form a matching line.*

Checkbox

- 5 The diagram shows the wavelengths of some different waves with increasing wavelengths.



What are the applications of light, infrared and microwave?

	communication	remote control	medical treatment
light	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
infrared	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
microwave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate can click on the correct checkbox(es) for each option (where appropriate).

Sequencing

ARRANGE THE CORRECT SEQUENCE



Vertical
sequencing

ARRANGE FROM SMALLEST TO BIGGEST(2MARKS)



Horizontal
sequencing

Candidate can arrange the correct sequence vertically or horizontally according to the question.

Interactive Stimuli

Number of glasses of beer

Number of hours after drinking

Mass of person (kg)

Gender
(Click the appropriate box)

♂ Male

♀ Female

Blood Alcohol Concentration (BAC)

0.010 %

3 (a) State one health risk of drinking excessive alcohol over a long period of time. [1]

Beer contains alcohol. When a person drinks beer, the concentration of alcohol in the blood depends on four factors:
number of glasses of beer drank
number of hours after drinking
mass of the person
gender of the person (female or male)

The tool uses the above four factors to estimate a person's Blood Alcohol Concentration (BAC).

Use the tool by moving the sliders and select the gender to get the BAC estimates. Answer the questions in the spaces provided.

(b) Estimate the Blood Alcohol Concentration (BAC) in the following people.

2 hours after a male of mass 70 kg drank 4 glasses of beer.

(i) BAC = % [1]

(ii) 2 hours after a female of mass 70 kg drank 4 glasses of beer.
BAC = % [1]

Interactive stimuli

Questions

Candidate can select interactive inputs on the interactive stimuli and use the information to solve problems that are required by the question(s).