



The Royal Australian and New Zealand
College of Radiologists®

e-Applied Imaging Technology (AIT) Paper 1 User Guide



RADIOLOGY ELECTRONIC EXAMINATIONS

User Guide for:

- Part 1 e-AIT Exam Paper 1

Please note that the user guide for Paper 2 can be found in the e-MCQ User Guide document.

This user guide contains screenshots outlining step by step instructions on how to use the e-AIT Exam platform.

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Logging In

Before you can begin sitting for your exam, you need to login to the e-Exam platform.

- 1 Username**
Your username is your candidate number. If you are unsure, please refer to your exam verification document.
- 2 Password**
Your password will be provided to you when you register at the examination venue.
- 3 Login**
After you enter your Username and Password, click the **LOGIN** button to log into the system



The screenshot shows the login interface for the Radiology Examinations. At the top left is the crest of The Royal Australian and New Zealand College of Radiologists. Below it, the text reads "The Royal Australian and New Zealand College of Radiologists*". To the right, a "Disclaimer" box contains the following text: "The RANZCR takes every care in organising the examination. However it cannot guarantee the organisation and running of the examination will be free of disruptions or problems. Trainees are advised that such problems or disruptions will not automatically represent grounds for appeal of their result. Should such an incident occur, a trainee may submit a reconsideration form for review." The main heading is "Radiology Examinations". Below this are three numbered callouts: 1 points to the "Username:" input field; 2 points to the "Password:" input field; and 3 points to the red "LOGIN" button. Below the password field, there is a small text box that says "By selecting to LOGIN you have read and accepted the disclaimer". In the background, a person in blue scrubs is seen from the side, sitting at a desk with a computer monitor displaying a medical image.

Starting the exam with reading time

A 5-minute reading time is available for the e-AIT Paper 1 Exam only. During reading time, candidates can peruse through the questions but will not be able to type in answers.

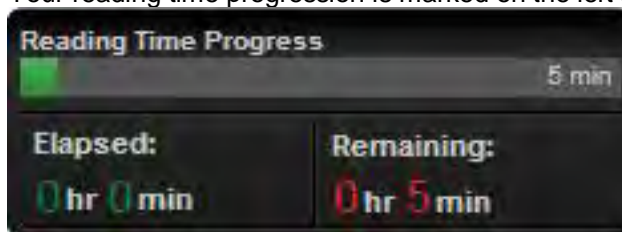
- 1 After you login, you will be presented with the Exam Instructions screen while you wait to be confirmed by the invigilator. This message will appear at the top of the screen.

Please wait to be confirmed
Your session must be confirmed by the invigilator before you can proceed

- 2 Once you have been confirmed, the message at the top of the screen will update to inform you that your session is ready. The invigilator will then start the exam to ensure all candidates commence reading time together.

Your session is ready
Please wait for the invigilator to start the exam

- 3 Your reading time progression is marked on the left side of the screen.



When the reading time ends, you will be notified via a message on the screen. The e-AIT exam platform will automatically display the first question in the exam.

The exam reading time is over. You can now start answering questions.

The screenshot shows the exam interface. On the left, there is a sidebar with the user's name 'John Smith', exam title 'Applied Imaging Technology Paper 1', and a 'Reading Time Progress' bar. The main area displays the exam title 'RADIOLOGY PART 1 ONLINE EXAMINATIONS' and 'e-Applied Imaging Technology (AIT) Exam Paper 1'. It includes the date '17 September 2013', time allowed '2 hours', and reading time '5 minutes'. There are three cases listed: Case 1 (3 Questions), Case 2 (3 Questions), and Case 3 (4 Questions). A 'Current Case 1 Question 1' menu is shown with 'Questions' and 'Cases' tabs. Below the menu are 'Previous Question' and 'Next Question' buttons. At the bottom, there is a progress indicator showing 'Completed 0', 'Remaining 10', and 'Need review 0'. The sidebar on the left has a 'Reading Time Progress' bar with 'Elapsed: 0 hr 0 min' and 'Remaining: 0 hr 5 min'.

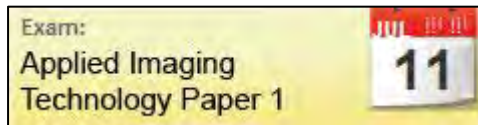
Exam information

This section will help you familiarise yourself with the e-AIT Exams platform.

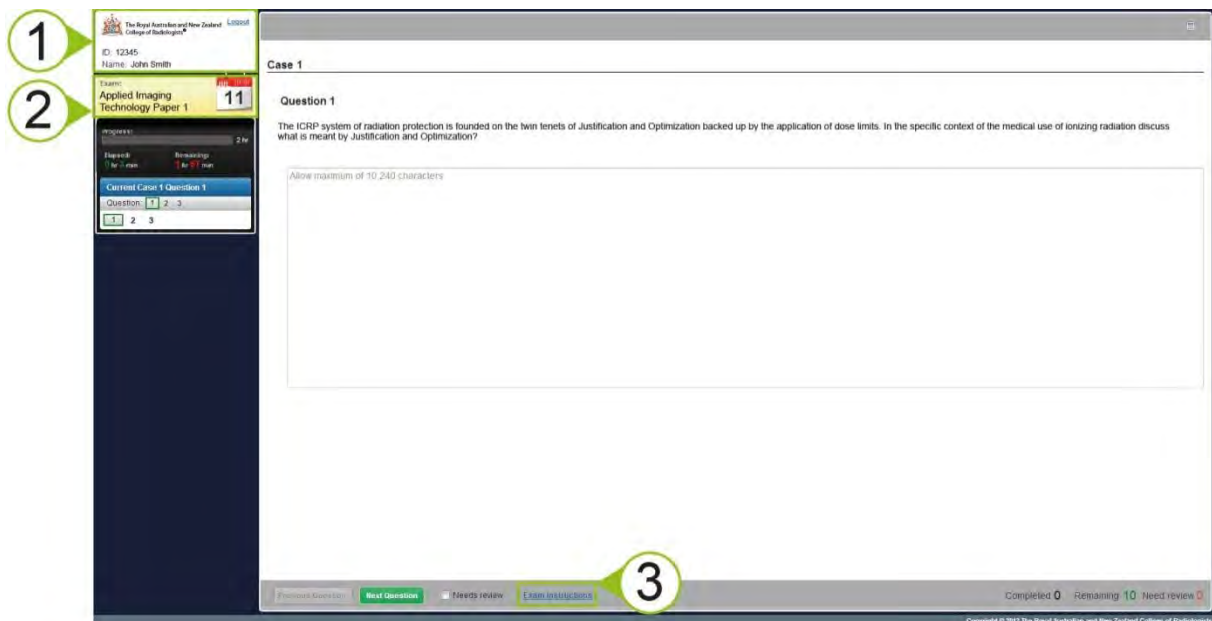
- 1 Your candidate number and name are displayed at the top left of the screen.



- 2 Below that, the exam title and date are displayed.



- 3 You can return to the previous instruction page by clicking the **Exam Instructions** button at the bottom of the screen at any time during the exam.



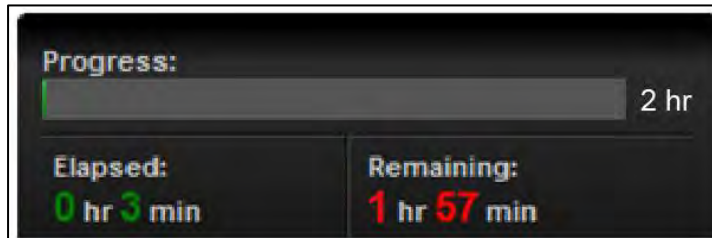
The screenshot shows the full exam interface. Callout 1 points to the user information (ID: 12345, Name: John Smith). Callout 2 points to the exam title (Applied Imaging Technology Paper 1) and the date (11). Callout 3 points to the Exam Instructions button at the bottom of the screen. The main content area displays 'Case 1' and 'Question 1' with a text input field for the answer.

Exam progress indication

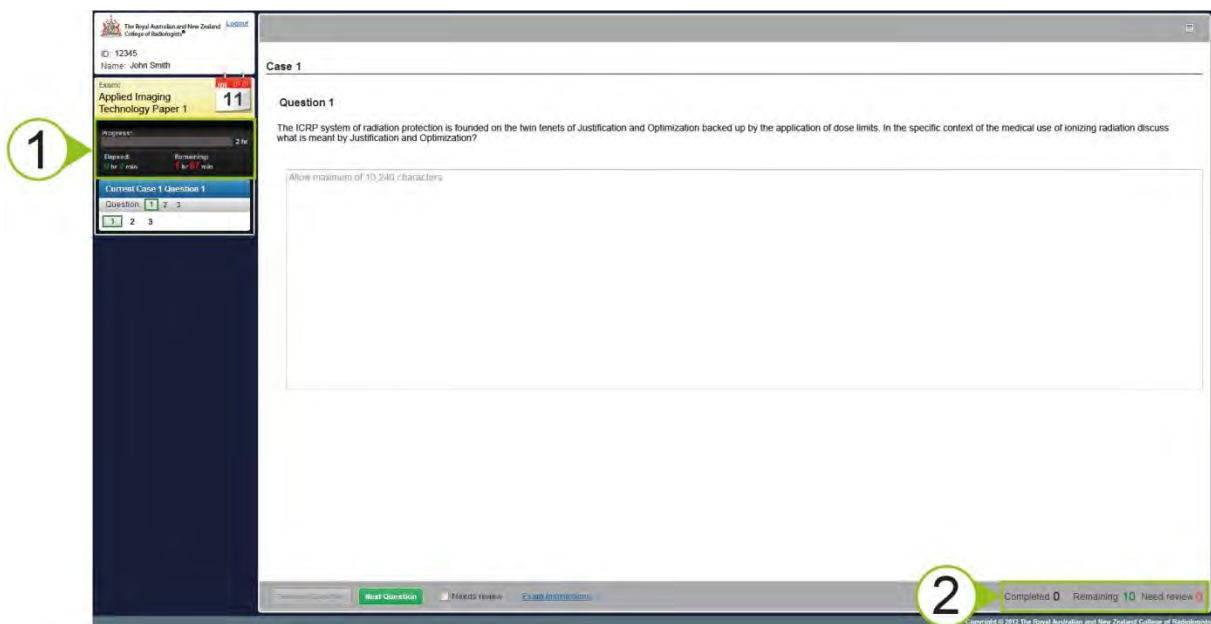
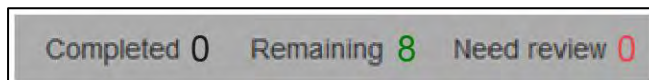
Your progression in the e-AIT Exams is indicated in two places on the screen.

- 1 On the left side of the screen, a progress bar visually indicates your time in the exam. Detailed elapsed time and remaining time are also presented here.

The Remaining time section will blink to notify you when you have **5 minutes** left to complete the exam.



- 2 At the bottom right of the screen, the number of questions you have completed, remaining or marked as Needs Review are listed.

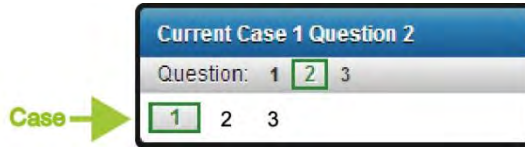


The screenshot shows the full exam interface. On the left side, there is a sidebar with a progress bar (labeled with a circled '1') showing "Applied Imaging Technology Paper 1" with a score of 11. The progress bar shows "Elapsed: 0 hr 3 min" and "Remaining: 1 hr 57 min". The main area is titled "Case 1" and contains "Question 1" with the text: "The ICRP system of radiation protection is founded on the twin tenets of Justification and Optimization backed up by the application of dose limits. In the specific context of the medical use of ionizing radiation discuss what is meant by Justification and Optimization?". Below the question is a text input field with a character limit of 10,240. At the bottom right, there is a status bar (labeled with a circled '2') showing "Completed 0 Remaining 10 Need review 0".

Moving through the exam questions

You can move through the e- AIT Exam by either of the two methods listed below.

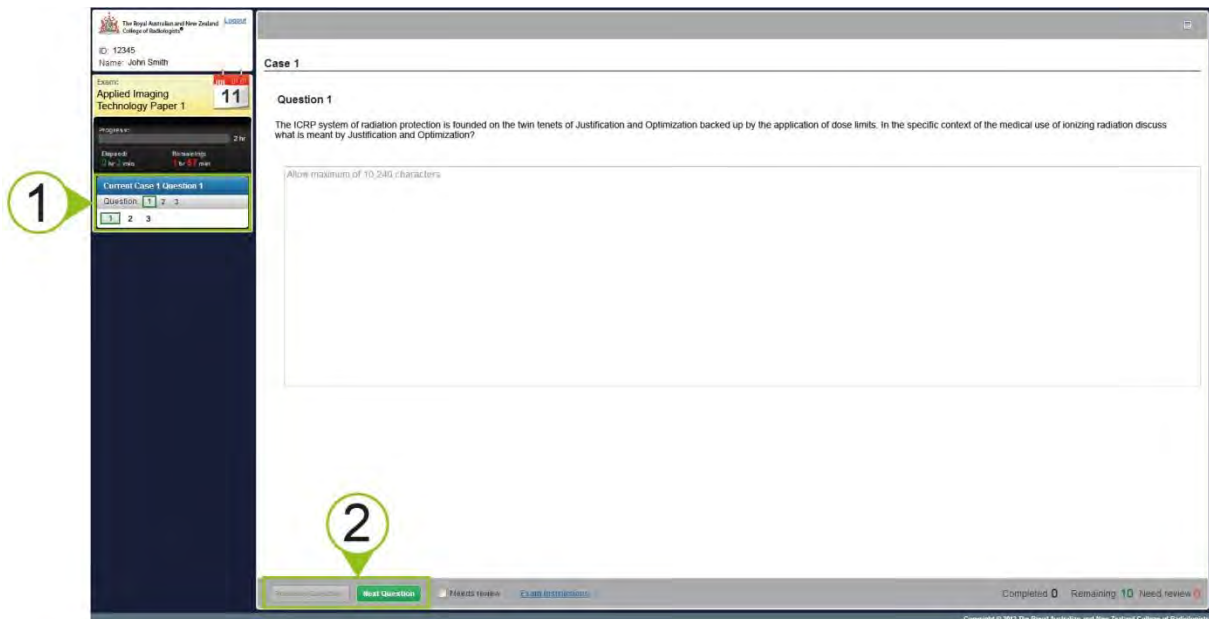
- 1 Click on any of the Case and Questions within the list box located on the left side of the screen.



As you progress through the exam, the numbers will change in colour to indicate your progression.

- 1 Un-answered questions
- 1 Answered questions
- 1 Questions marked for review
- 1 Question currently displayed

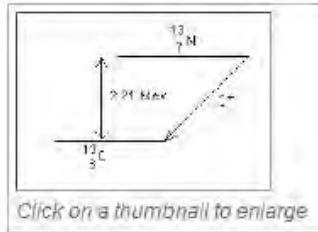
- 2 Click the **Previous Question** or the **Next Question** button at the bottom of the screen to move from one question to another sequentially.



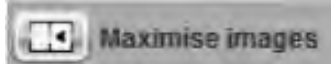
Viewing images

Some questions will have images associated with it.

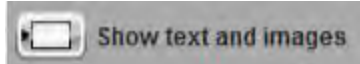
- 1 To view the image, click on the image thumbnail. This will open an enlarged version on the right side of the screen.



- 2 By default you will be shown both the Text and Image display area when you open a question. Click the **Maximise images** button to view a single screen display of images.



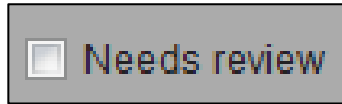
When you would like to answer the questions, click **Show text and images**.



The screenshot shows the exam interface. On the left, there is a sidebar with the user's name (John Smith), exam title (Applied Imaging Technology Paper 1), and progress indicators. The main area displays 'Case 1' and 'Question 2'. The question asks: 'In the specific context of the medical use of ionizing radiation what is Justification and Optimization?'. Below the question are three sub-questions (a, b, c) asking for 'Optimization' with character limits. A thumbnail image of the nuclear decay diagram is shown with a circled '1' and a 'Click on a thumbnail to enlarge' label. On the right, the enlarged diagram shows the decay of $^{13}_6\text{C}$ to $^{13}_7\text{N}$ with a β^+ emission and a 2.21 MeV energy difference. A circled '2' and 'Maximise images' button are also visible.

Answering questions

- 1 Answer questions by typing into the answer text box. The box will automatically expand as you type in your answer.
- 2 While answering questions, should you want to review the question at a later time during the exam, you can mark the question as Needs Review by clicking the **Needs Review** button located at the bottom of the screen.



Remember to un-tick the Needs Review button after you have reviewed your answer.



Note: Should you run out of time at the end of the exam, any answers which are still marked as **Needs Review** will be included in the submission.

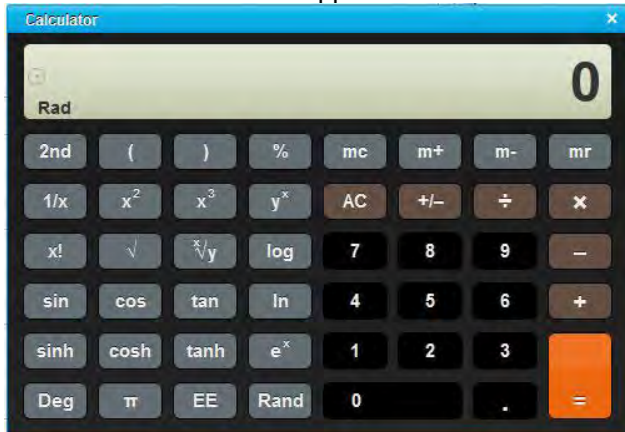
The screenshot shows the exam interface for "Case 1". On the left, a sidebar displays the user's name "John Smith", ID "12345", and exam details for "Applied Imaging Technology Paper 1" with a score of 26. The main area shows "Question 2" with the text: "In the specific context of the medical use of ionizing radiation what is Justification and Optimization?". Below this is a diagram of a beta-plus decay: a $^{13}_{6}\text{C}$ nucleus decays into a $^{13}_{7}\text{N}$ nucleus, with a vertical arrow labeled "2.21 Mev" and a diagonal arrow labeled " β^+ ". Below the diagram are three multiple-choice options, each asking for "Optimization" and allowing a maximum of 10,240 characters. At the bottom of the question area, there are buttons for "Previous Question", "Next Question", "Needs review" (highlighted with a green box and a circled '2'), and "Exam Instructions". The bottom right corner shows "Completed 0", "Remaining 10", and "Need review 0".

Using the online calculator

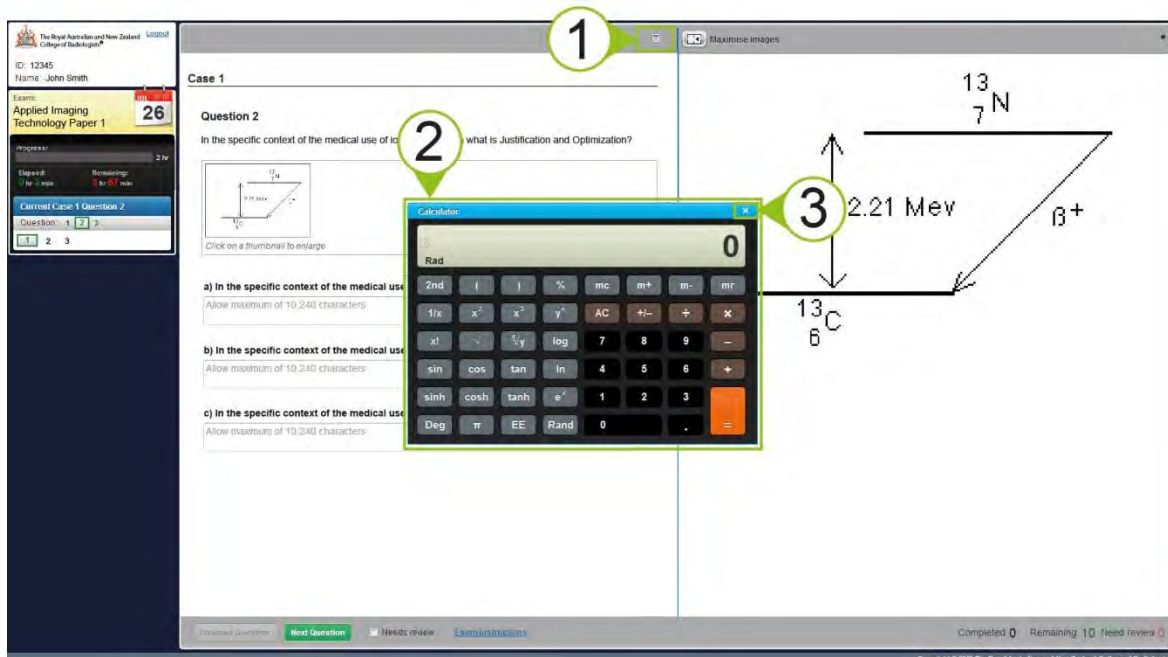
- 1 An online calculator is available on the e-AIT Exams platform. To launch the calculator, click on the calculator button.



- 2 The online calculator will appear in the middle of the screen.



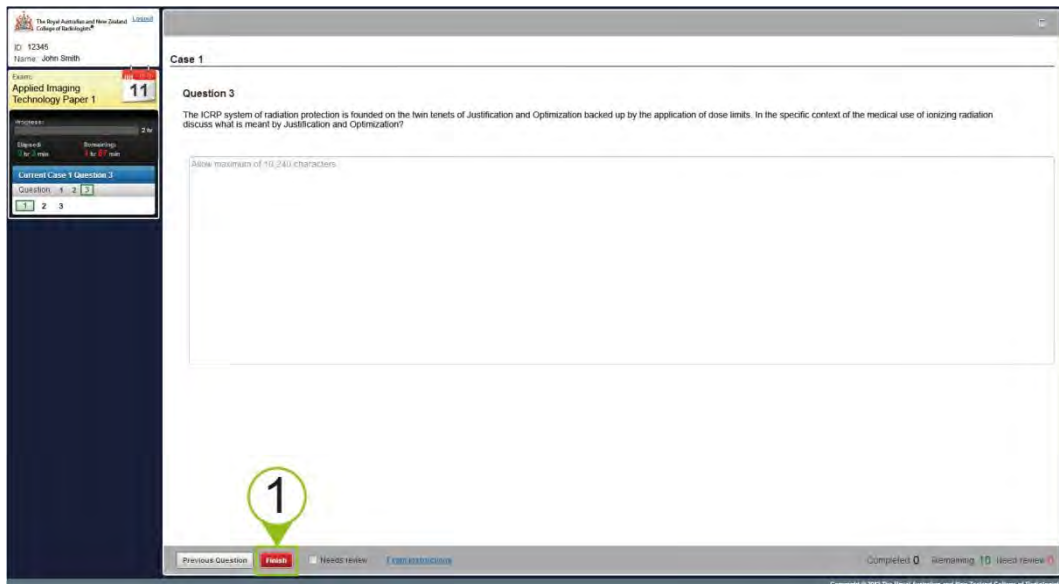
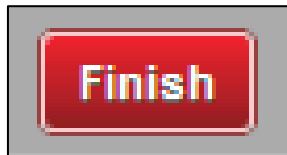
- 3 When your calculation is complete, click on the X to close the calculator.



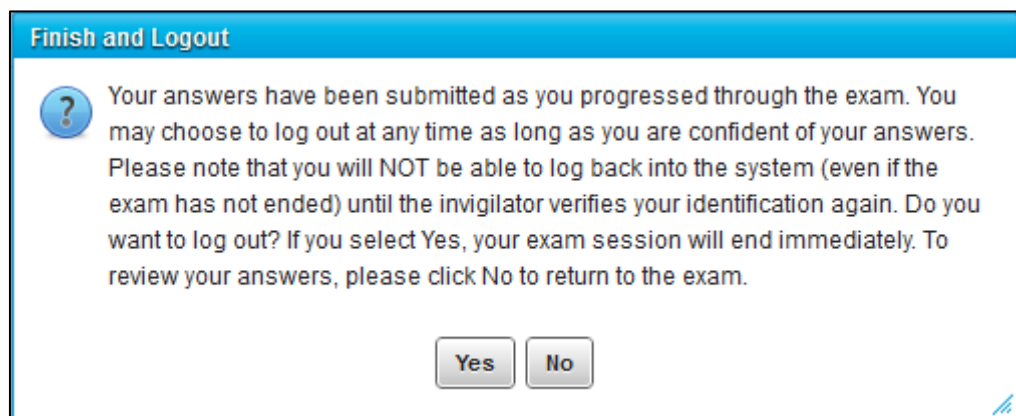
The screenshot shows the e-AIT Exams platform interface. On the left, there is a sidebar with the user's name (John Smith) and exam details (Applied Imaging Technology Paper 1, 26 minutes remaining). The main area displays 'Case 1' and 'Question 2', which asks about 'Justification and Optimization'. A diagram shows a beta particle (β^+) decaying from $^{13}_7\text{N}$ to $^{13}_6\text{C}$ with a maximum energy of 2.21 MeV. An online calculator is overlaid on the question, and a green circle with the number '3' points to the close button (X) in the top right corner of the calculator window.

Completing the exam

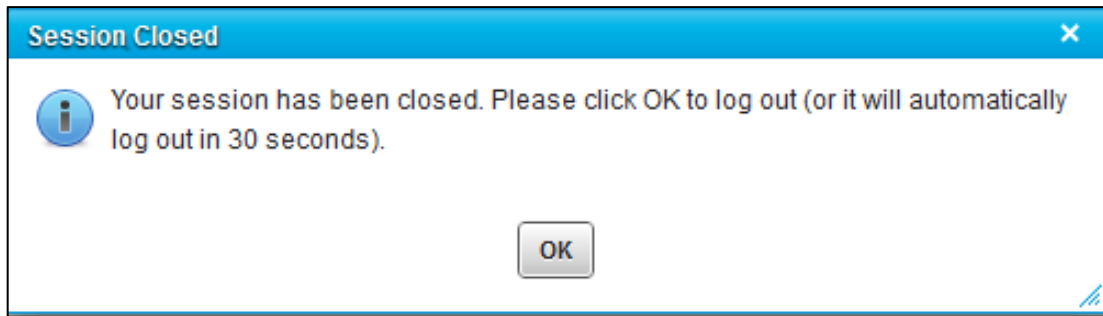
- 1 To complete the e-AIT Exam, go to the last question in the exam. You will notice that the **Next Question** button is now replaced by a **Finish** button. Click the **Finish** button to submit your exam.



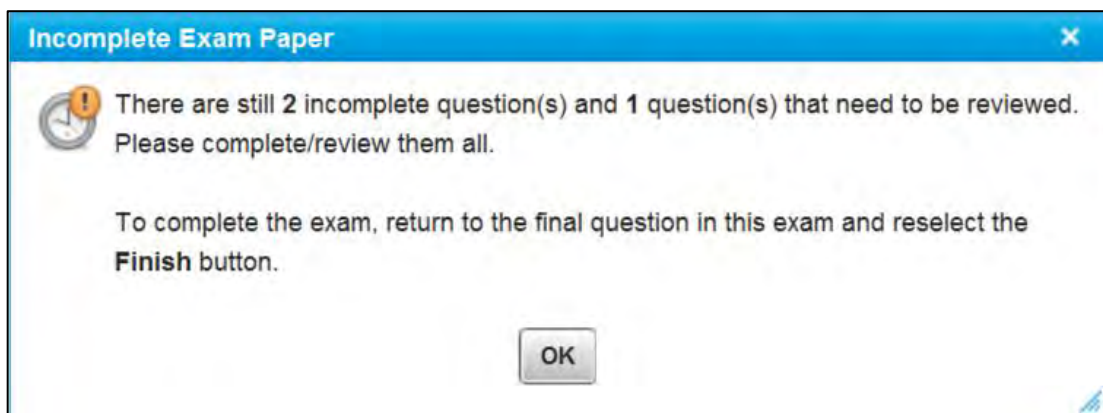
- 2 You will then be presented with the **Finish and Logout** confirmation window. Click **Yes** to proceed.



- 3 Your session will then be closed and you will be logged out after 30 seconds.



- 4 Prior to the end of the examination time, if you have outstanding questions, you will not be able to finish and logout. You will be presented with a popup window containing instructions on what you need to action before you are able to submit your exam.



Additional Resources

To assist you in sitting for your e-AIT Exams, additional resources are available from the RANZCR website at www.ranzcr.edu.au/training/exams/radiology-examinations/part-1-examination.

Read the **e-Exams Frequently Asked Questions (FAQs)** document with information about the online exams, venue and questions specifically on the e-AIT Exams.

The Royal Australian and New Zealand
College of Radiologists

Frequently Asked Questions (FAQs)

RADIOLOGY ELECTRONIC EXAMINATIONS

PART 1:
e-Anatomy
e-AIT (Applied Imaging Technology)

PART 2
e-MCQ (Radiology and Pathology)
e-Film Reading

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Part 2: e-MCQ (Radiology and Pathology)
Part 2: e-Film Reading

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