



The Royal Australian and New Zealand
College of Radiologists®

e-MCQ User Guide

Part 1 e-Applied Imaging Technology (AIT) Paper 2

Part 2 e-MCQ Radiology and Pathology



RADIOLOGY ELECTRONIC EXAMINATIONS

User Guide for:

- Part 1 e-AIT Exam: Paper 2
- Part 2 e-MCQ Exam: Radiology
- Part 2 e-MCQ Exam: Pathology

This user guide contains screenshots outlining step by step instructions on how to use the e-MCQ 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 image shows a composite graphic. At the top left is the crest of The Royal Australian and New Zealand College of Radiologists. Below it is the text "The Royal Australian and New Zealand College of Radiologists®". To the right is a black box with the word "Disclaimer" in red. The disclaimer text reads: "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." Below this is a screenshot of the "Radiology Examinations" login page. The page has a white background with blue text. It features a "Username:" field, a "Password:" field, and a red "LOGIN" button. A small text box below the password field says "By selecting to LOGIN you have read and accepted the disclaimer". Three yellow callout boxes with numbers 1, 2, and 3 point to the Username field, the Password field, and the LOGIN button respectively. In the background of the screenshot, a person in blue scrubs is sitting at a desk with a computer monitor displaying a medical image.

Disclaimer

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.

Radiology Examinations

1 Username:

2 Password:

By selecting to LOGIN you have read and accepted the disclaimer

3 **LOGIN**

Before starting the exam

- 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 at the same time.

Your session is ready

Please wait for the invigilator to start the exam

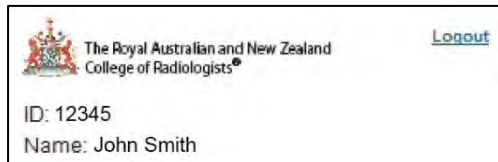
The screenshot shows the user interface for the Radiology Online Examinations. On the left, there is a sidebar with the Royal Australian and New Zealand College of Radiologists logo, user ID 12345, name John Smith, and exam details: Part II Radiology Exam (Official) with a 21-minute timer. The main content area features a large orange box with a '1' in a circle, indicating the first step. The message reads: 'Please wait to be confirmed. Your session must be confirmed by the invigilator before you can proceed.' Below this, the exam title 'RADIOLOGY ONLINE EXAMINATIONS Part 2 e-MCQ Exams' and 'Radiology' are displayed, along with the date '21 August 2012', 'Time Allowed: 2 Hours', and 'Number of Questions: 100'. A progress bar shows '2 hr' remaining. The main text area contains instructions: 'Welcome to the Radiology online examination system. You have 2 hours to complete this exam. As you progress through this examination, please note the appearance of each question as follows: unanswerd questions are coloured black, answered questions are coloured grey, and questions marked "for review" are displayed in a red box. There are two ways to select your preferred answer: click on the radio button, or click on the answer text. To move to another question, click on either the Next Question or Previous Question button or select from the questions menu on the left. To complete the examination, select the Finish button which appears once you have reached the last question. Should you require any assistance during this exam period, please inform the invigilator in the room. Good luck and success in this examination.'

The screenshot shows the user interface for the Radiology Online Examinations. On the left, there is a sidebar with the Royal Australian and New Zealand College of Radiologists logo, user ID 12345, name John Smith, and exam details: Part II - Radiology Exam (Official) with a 21-minute timer. The main content area features a large orange box with a '2' in a circle, indicating the second step. The message reads: 'Your session is ready. Please wait for the invigilator to start the exam.' Below this, the exam title 'RADIOLOGY ONLINE EXAMINATIONS Part 2 e-MCQ Exams' and 'Radiology' are displayed, along with the date '21 August 2012', 'Time Allowed: 2 Hours', and 'Number of Questions: 100'. A progress bar shows '2 hr' remaining. The main text area contains instructions: 'Welcome to the Radiology online examination system. You have 2 hours to complete this exam. As you progress through this examination, please note the appearance of each question as follows: unanswerd questions are coloured black, answered questions are coloured grey, and questions marked "for review" are displayed in a red box. There are two ways to select your preferred answer: click on the radio button, or click on the answer text. To move to another question, click on either the Next Question or Previous Question button or select from the questions menu on the left. To complete the examination, select the Finish button which appears once you have reached the last question. Should you require any assistance during this exam period, please inform the invigilator in the room. Good luck and success in this examination.'

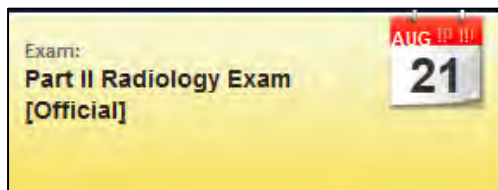
Exam Information

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

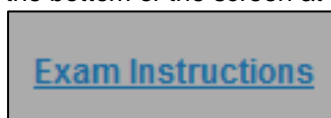
- 1 Your candidate number and name are displayed at the top left of the screen.



- 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.



1 ID: 12345 Name: John Smith

2 Exam: Part II Radiology Exam [Official] AUG 21

Progress: 2 hr

Elapsed: 1 hr 5 min Remaining: 7 hr 45 min

Current Question 1

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	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99
100								

Question 1:
Which of the following statements regarding renovascular hypertension is TRUE:

- A. A peak main renal artery to peak aortic centre stream velocity ratio of 2.5 during Doppler evaluation is diagnostic of a >70% stenosis
- B. Fibromuscular dysplasia has a predilection for the proximal third of the renal artery
- C. Angioplasty has a higher success rate for ostial atherosclerotic lesions than for lesions in the mid renal artery
- D. Fibromuscular dysplasia treated with balloon angioplasty has a high restenosis rate
- E. An acceleration time of 0.12s in the intrarenal vessels suggests a significant main renal artery lesion

3

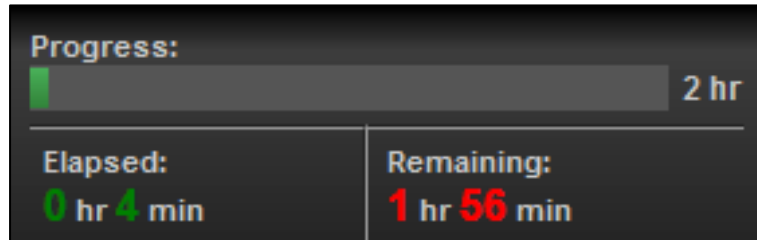
Completed 1 Remaining 99 Need review 0

Exam progress indication

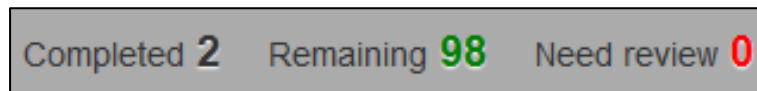
Your progression in the e-MCQ Exams is indicated in two places on the screen.

- 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 the Royal Australian and New Zealand College of Radiologists logo, user ID 12345, name John Smith, and exam details for "Part II Radiology Exam [Official]" with a score of 21. Below this is a progress bar and a question list. A callout "1" points to the progress bar. The main area shows "Question 1" with a multiple-choice question about renovascular hypertension. At the bottom right, a callout "2" points to the summary bar showing "Completed 1", "Remaining 99", and "Need review 0".

Moving through the exam

You can move through the e-MCQ Exams by either of the two methods listed below.

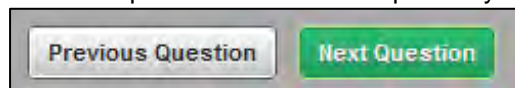
- 1 Click on any of the question numbers within the question list box located on the left side of the screen.

Current Question 7									
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	35	36	
37	38	39	40	41	42	43	44	45	
46	47	48	49	50	51	52	53	54	
55	56	57	58	59	60	61	62	63	
64	65	66	67	68	69	70	71	72	
73	74	75	76	77	78	79	80	81	
82	83	84	85	86	87	88	89	90	
91	92	93	94	95	96	97	98	99	
100									

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.

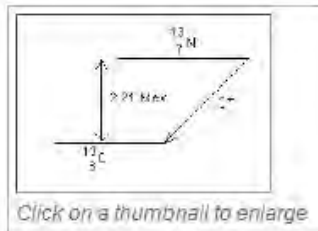


The screenshot shows the exam interface. On the left, there is a sidebar with a question list. A red box highlights the 'Current Question 1' section, and a red circle with the number '1' points to it. On the right, the main area displays 'Question 1' with a multiple-choice question. A red circle with the number '2' points to the 'Previous Question' and 'Next Question' buttons at the bottom of the screen. The interface also shows a progress bar, a timer, and a logo for The Royal Australian and New Zealand College of Radiologists.

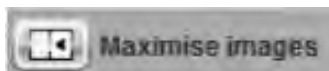
Viewing images (e-AIT)

Some questions will have images associated with it.

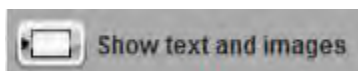
- 1 To view the image, click on the image thumbnail. This will open an enlarged version on the right side of the screen.



- 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 following elements:

- Header:** The Royal Australian and New Zealand College of Radiologists logo and 'Maximise images' button.
- Left Sidebar:** User ID 12345, Name John Smith, Applied Imaging Technology Paper 2, and a periodic table.
- Question 2:** 'In the decay scheme shown in the diagram:'. Below is a thumbnail of the decay diagram with a '1' pointing to it and the text 'Click on a thumbnail to enlarge'. Below the thumbnail are five multiple-choice options (A-E).
- Right Panel:** A large, clear version of the nuclear decay diagram. It shows a horizontal line for $^{13}_6\text{C}$ at the bottom and another horizontal line for $^{13}_7\text{N}$ at the top. A vertical double-headed arrow between them is labeled '2.21 MeV'. A diagonal arrow points from the $^{13}_6\text{C}$ line up to the $^{13}_7\text{N}$ line, labeled ' β^+ '.
- Bottom:** Navigation buttons: 'Previous Question', 'Next Question', 'Needs review', 'Exam instructions'. Status: 'Completed 0', 'Remaining 100', 'Need review 0'. Copyright © 2012 The Royal Australian and New Zealand College of Radiologists.

Answering questions

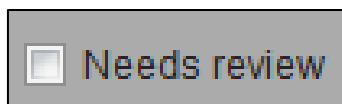
- 1 You can answer questions by either clicking the radio button or the option text.

Question 16:

Which of the following statements regarding hypertrophic obstructive cardiomyopathy is TRUE:

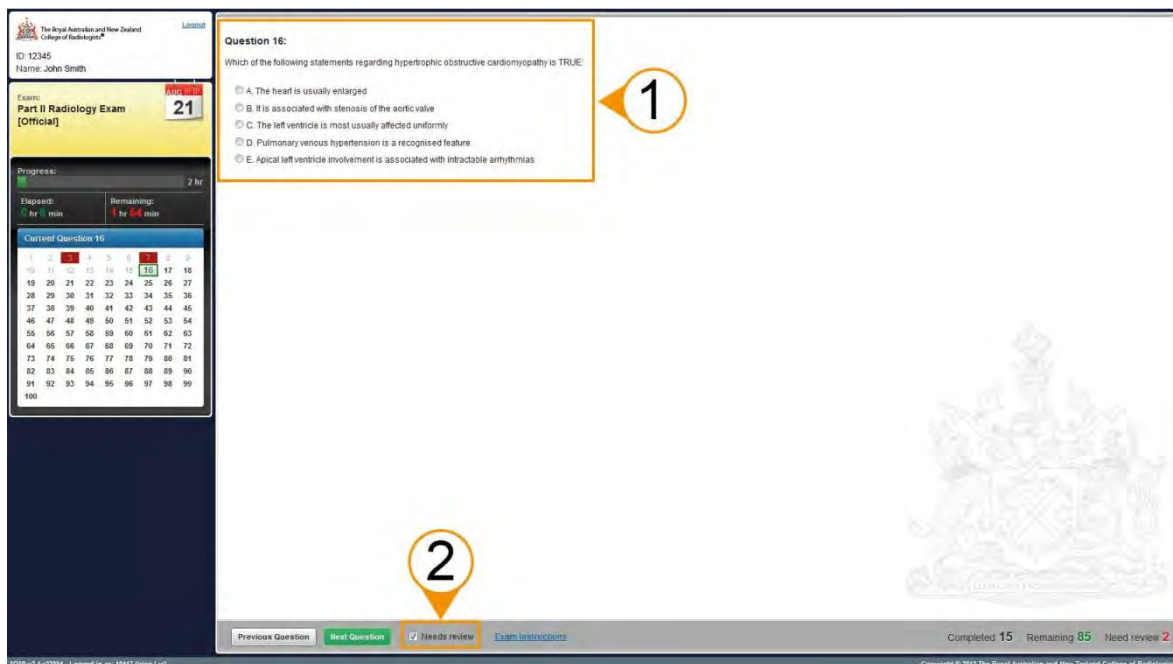
- A. The heart is usually enlarged
- B. It is associated with stenosis of the aortic valve
- C. The left ventricle is most usually affected uniformly
- D. Pulmonary venous hypertension is a recognised feature
- E. Apical left ventricle involvement is associated with intractable arrhythmias

- 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, the answers you entered to questions which are still marked as **Needs Review** will be included in the submission.

A screenshot of the Radiology Online Examinations interface. The top left shows the user's name "John Smith" and the exam title "Part II Radiology Exam [Official]". A progress bar indicates 21 out of 100 questions completed. A question card for Question 16 is displayed, with a callout '1' pointing to the radio button options. At the bottom, a callout '2' points to the "Needs review" button. The interface includes a question grid, a timer, and navigation buttons like "Previous Question", "Next Question", "Needs review", and "Exam Instructions". The Royal Australian and New Zealand College of Radiologists logo is visible in the bottom right corner.

The Royal Australian and New Zealand College of Radiologists

Exam: Part II Radiology Exam [Official] 21

Progress: 21 / 100

Elapsed: 1 hr 54 min Remaining: 1 hr 54 min

Question 16: Which of the following statements regarding hypertrophic obstructive cardiomyopathy is TRUE:

- A. The heart is usually enlarged
- B. It is associated with stenosis of the aortic valve
- C. The left ventricle is most usually affected uniformly
- D. Pulmonary venous hypertension is a recognised feature
- E. Apical left ventricle involvement is associated with intractable arrhythmias

Needs review

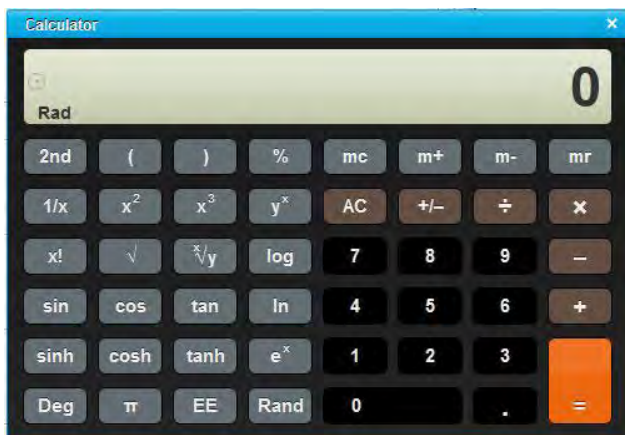
Completed 15 Remaining 85 Need review 2

Using the online calculator (e-AIT)

- 1 An online calculator is available on the e-AIT Exams platform only. 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.



Question 2

In the decay scheme shown in the diagram

Click on a thumbnail to enlarge

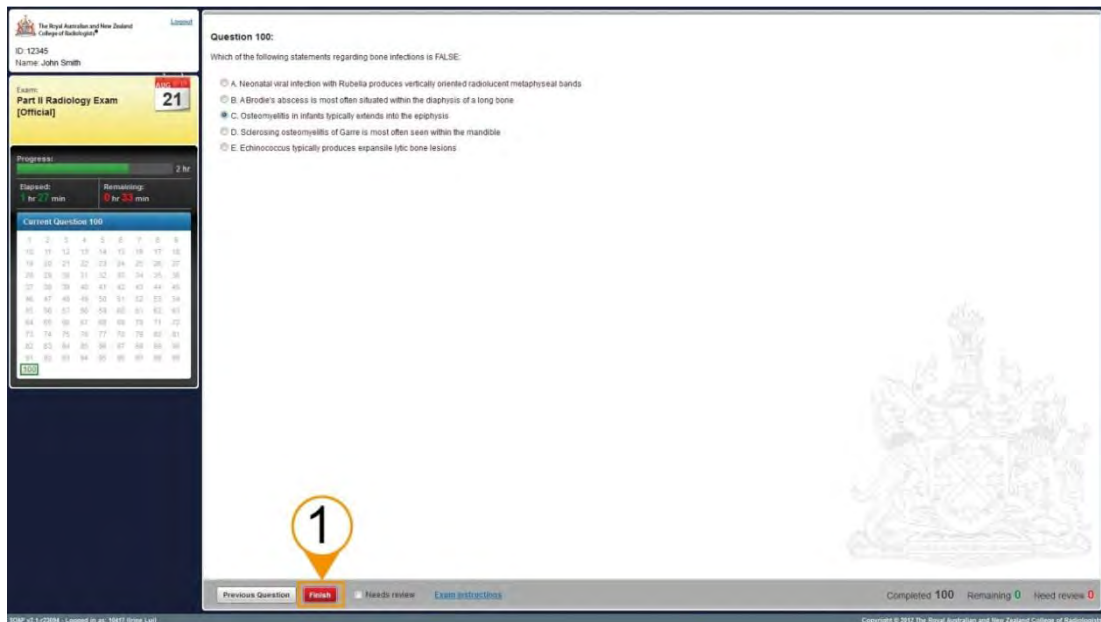
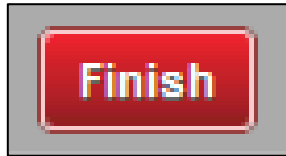
A. The mean energy of the positrons emitted
 B. The atomic number increases by 1
 C. Positrons will be the only emissions which
 D. N-13 and C-13 have equal numbers of neutrons
 E. The maximum energy of the positrons emitted

Completed 0 Remaining 100 Need review 0

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Completing the exam

- 1 To complete the e-MCQ 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.

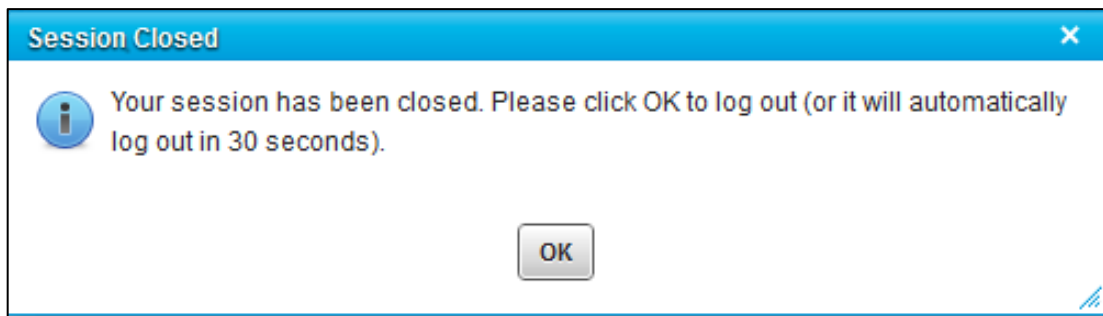


- 2 You will then be presented with the **Finish and Logout** confirmation window. Click **Yes** to proceed.

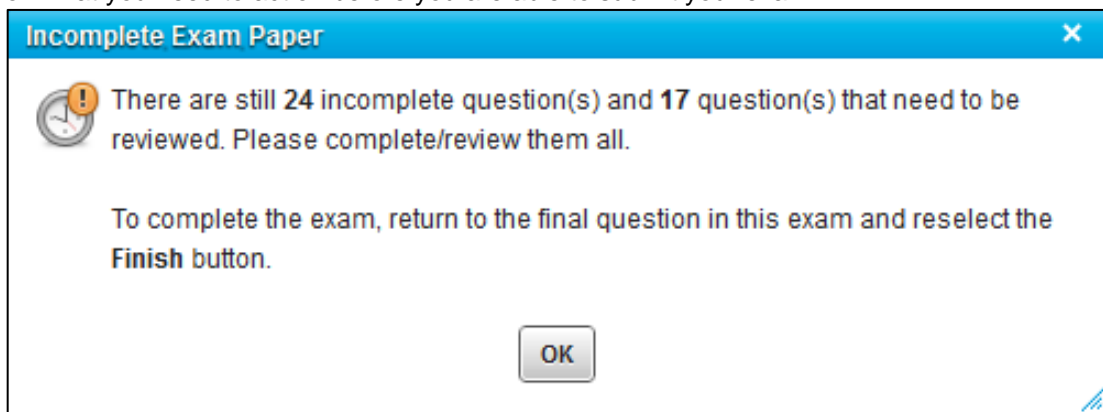
Finish and Logout

 Your answers have been submitted as you progressed through the exam. You may choose to log out at any time as long as you are confident of your answers. Please note that you will NOT be able to log back into the system (even if the exam has not ended) until the invigilator verifies your identification again. Do you want to log out? If you select Yes, your exam session will end immediately. To review your answers, please click No to return to the exam.

- 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-MCQ Exam, additional resources are available from the RANZCR website at www.ranzcr.edu.au/training/exams/radiology-examinations/part-1-examination and www.ranzcr.edu.au/training/exams/radiology-examinations/part-2-examination.

- 1 **Demonstration Video** which shows you how to progress through the e-MCQ Exams (Radiology and Pathology).



- 2 **E-Exams Frequently Asked Questions (FAQs)** document with information about the online exams, venue and questions specifically on the e-MCQ exams: AIT, Radiology and Pathology.

