



## تحت رعاية



أ.د/ شحاته غريب شلقامي

نائب رئيس الجامعة لشئون التعليم والطلاب

أ.د/ طارق الجمال

رئيس جامعة أسيوط

أ.م.د/ محمد مصطفى حمد

مدير مركز القياس والتقييم بالجامعة

## دورة تدريبية

تصميم الاختبارات الالكترونية

للسادة أعضاء هيئة التدريس ومعاونيهم – القطاع الطبي

إعداد

أ.د/ هبه عطيه يسى

كلية الطب – جامعة أسيوط

# *ELECTRONIC EXAM*

## *كيفية تصميم الإمتحان الإلكتروني*

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Institute

Deputy of the Quality assurance Unit Faculty of Medicine



# *CONTENTS*

- Advantages of the online exam
- Disadvantages
- How to make an online exam on Moodle.
- Different Types of questions.

# ***BENEFITS OF THE ONLINE ASSESSMENT***

- Reduce administrative burden (printing – papers- circulating exam ...etc)
- Quicker to Mark and Issue Results
- Collaborative Question (any mistake in the exam can be corrected easily than paper-work).



# *BENEFITS OF THE ONLINE ASSESSMENT*

- Increased Security (especially if it is taken from question bank)
- Flexibility to Take Exams Anywhere (especially nowadays in COVID 19).
- Time and cost effective.
- You can manage multiple forms of exam easily.



## *DISADVANTAGES OF THE ONLINE EXAM*

- There is no check up for the students during exam.
- Fraud of the students.
- If the questions were from bank so they can search for the answers.
- Require high speed internet.





تسرب الامتحانات

متشكر قوي ... معايا واحدة  
من اسبوع !!



Disadvantages of  
paper exam



# *MOODLE AS A PLATFORM FOR EXAM*




[www.aun.edu.eg/med-ns/](http://www.aun.edu.eg/med-ns/)

Username: training

Password: Tt@12345

← → ↻ ⚠ Not secure | aunonline.aun.edu.eg/med-ns/login/index.php ☆ ⚙ Error

Apps السجل علامة تنويب جديدة Other bookmarks

 Home Courses Log in

Search courses 🔍

### Login into your account

Username

Password

[Forgotten your username or password?](#)  Remember username

Log in

Log in as a guest

Activate Windows  
Go to Settings to activate Windows.

**Username: training**

**Password: Tt@12345**

- Respiratory and renal systems (9)
- Hematology (7)
- Health & illness in the community (6)
- Introduction to Patient Care semester 4 (5)
- Elective courses (1)
- Training Course (1)**
- Third Year (1)
  - Neuroscience System (6)
  - Endocrinology, Reproductive and development biology ERD 313 (6)
  - Epidemiology and Data management (4)
  - Evidence Based Medicine (4)
  - Elective 3 (1)
- fourth year (1)
- fifth year (1)

### JANUARY 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					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						

Activate Windows

### Navigation

- Home
- Dashboard
- Site pages
- My courses
  - Model answer
- Courses
  - First year
  - Second Year
    - Cardiovascular system
    - Skin & Musculoskeletal system
    - GIT, Gastrointestinal system
    - Introduction to Patient Care Semester 2

Course categories: Second Year / Training Coi

Training Course

Search courses:  GO

Training Course

ADD A NEW COURSE

### Calendar

January 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					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						

Activate Windows  
Go to Settings to activate Windows

Administration

## Navigation

Home

Dashboard

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▼ My courses

▶ Model answer

▼ Courses

▼ Second Year

▶ Cardiovascular system

▶ Skin & Musculoskeletal system

▶ GIT, Gastrointestinal system

News forum

Edit

Edit

[+ Add an activity or resource](#)

## Search forums

GO

Advanced search

## Latest announcements

Add a new topic...

(No announcements have been posted yet.)

Activate Windows

Go to Settings to activate Windows.

## Upcoming

Add an activity or resource

- Assignment 2.2 (Disabled)
- Chat
- Choice
- Database
- External tool
- Feedback
- Forum
- Glossary
- Lesson
- Quiz
- SCORM package

Select an activity or resource to view its help.  
Double-click on an activity or resource name to quickly add it.

ADD

CANCEL

Search for

Latest  
announcements

Add a new topic...

(No announcements  
posted yet.)

Activate Wi-Fi

Go to Settings

ion

## ✔ Adding a new Quiz ?

▶ Expand

### ▼ General

Name \*

Description

Rich text editor toolbar with icons for text formatting (bold, italic, underline), list creation, link insertion, and other editing tools.

answer

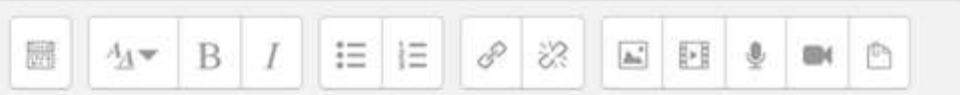
Year

Administration

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  - ▶ Model answer
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  - ▼ Second Year
    - ▶ Cardiovascular system
    - ▶ Skin & Musculoskeletal system
    - ▶ GIT, Gastrointestinal system
    - ▶ Introduction to Patient Care Semester 3
    - ▶ Respiratory and renal systems
    - ▶ Hematology
    - ▶ Health & illness in the community
    - ▶ Introduction to Patient Care semester 4

Name •

Description



الامتحان من الساعة 5 الى 7 م  
مدة الامتحان 30 دقيقة  
عدد الاسئلة 30

Display description on course page

▶ Timing

Activate Windows  
Go to Settings to activate Windows.



- ▶ Elective courses
- ▼ Training Course
  - ▼ Training Course
    - ▶ Participants
    - 🏆 Badges
    - ▲ Competencies
    - 📅 Grades
    - ▶ General
  - ▶ Incision Academy2
  - ▶ First year
  - ▶ Third Year
  - ▶ fourth year
  - ▶ fifth year
  - ▶ Exam center 2019-2020
  - ▶ الفرار الطلاب للموافقه علي الامتحان الإلكتروني للطل...

## ▼ Timing

Open the quiz ?

21 January

2021 10

51  Enable

Close the quiz

21 January

2021 10

51  Enable

Time limit ?

0 minutes  Enable

When time expires ?

Attempts must be submitte

Activate Windows  
Go to Settings to activate Windows.

## Add a block

Add... ▾

Administration

### Grade

Grade category ⓘ  ▾

Grade to pass ⓘ

Attempts allowed  ▾

Grading method ⓘ  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10

### Layout

### Question behaviour

Activate Windows  
Go to Settings to activate Windows.

← → ↻ ⚠ Not secure | aunonline.aun.edu.eg/med-ns/course/modedit.php?add=quiz&type=&course=390&section=0&return=0&sr=0 🔍 ☆ ⚙️ 📄 🌐 Error ⋮

📱 Apps 🕒 السجل 📌 علامة تبويب جديدة | 📌 Other bookmarks

Administration

Layout

New page ?

Every question

Never, all questions on one page

Every question

Every 2 questions

Every 3 questions

Every 4 questions

Every 5 questions

Every 6 questions

Every 7 questions

Every 8 questions

Every 9 questions

Every 10 questions

Every 11 questions

Every 12 questions

Every 13 questions

Every 14 questions

Every 15 questions

Every 16 questions

Every 17 questions

Every 18 questions

Every 19 questions

▶ Question behaviour

▶ Review options ?

▶ Appearance

▶ Extra restrictions on attempt

Activate Windows  
Go to Settings to activate Windows.

Administration

### ▼ Review options ?

#### During the attempt

- The attempt ?
- Whether correct ?
- Marks ?
- Specific feedback ?
- General feedback ?
- Right answer ?
- Overall feedback ?

#### Immediately after the attempt

- The attempt
- Whether correct
- Marks
- Specific feedback
- General feedback
- Right answer
- Overall feedback

#### Later, while the quiz is still open

- The attempt
- Whether correct
- Marks
- Specific feedback
- General feedback
- Right answer
- Overall feedback

#### After the quiz is closed

- The attempt
- Whether correct
- Marks
- Specific feedback
- General feedback
- Right answer
- Overall feedback

### ▶ Appearance

### ▶ Extra restrictions on attempts

Activate Windows  
Go to Settings to activate Windows.

- ▶ القرار الطلاب للموافقة على الامتحان الإلكتروني...
- ▶ Professional Diploma in Medical Education

Administration

Add a block

Add... ▾

▶ Overall feedback ⓘ

▶ Common module settings

▶ Tags

▶ Competencies

SAVE AND RETURN TO COURSE SAVE AND DISPLAY CANCEL

There are required fields in this form marked \*

Activate Windows  
Go to Settings to activate Windows.

## Navigation



Home

Dashboard

Site pages

My courses

Model answer

Courses

Second Year

Cardiovascular system

Skin & Musculoskeletal system

GIT, Gastrointestinal system

Introduction to Patient Care Semester 3

Respiratory and renal

News forum

Edit

Edit

exam

Edit

+ Add an activity or resource

+ Add weeks

## Search forums



GO

Advanced search

## Latest announcements



Add a new topic...

(No announcements have been posted yet.)

## Upcoming events



Activate Windows  
Go to Settings to activate Windows.



Administration

3



## Navigation

Home

🏠 Dashboard

▶ Site pages

▼ My courses

▶ Model answer

▼ Courses

▼ Second Year

## exam

الإمتحان من الإسته 5 م الي 7 م

مدة الإمتحان لكل طالب 30 دقيقة

عدد الإسته 20

Grading method: Highest grade

No questions have been added yet

EDIT QUIZ

BACK TO THE COURSE

Activate Windows  
Go to Settings to activate Windows.

Administration

### Navigation

- Home
- Dashboard
- Site pages
- My courses
  - Model answer
- Courses
  - Second Year
    - Cardiovascular system
    - Skin & Musculoskeletal system
    - GIT, Gastrointestinal system

### Edit

Question

REPP



#### Choose a question type to add

QUESTIONS

- Calculated
- Calculated multichoice
- Calculated simple
- Drag and drop into text
- Drag and drop markers
- Drag and drop onto image
- Drag-and-Drop Matching
- Embedded answers (Cloze)
- Essay
- Matching
- Multiple choice

Select a question type to see its description.

ADD CANCEL

Activate Windows  
Go to Settings to activate Windows.



### Choose a question type to add

- Drag-and-Drop Matching
- Embedded answers (Cloze)
- Essay
- Matching
- Multiple choice
- Numerical
- Random short-answer matching
- Select missing words
- Short answer
- True/False

**OTHER**

- Description

Select a question type to see its description.

ADD CANCEL

### Navigation

- Home
- Dashboard
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  - Model answer
- Courses
  - Second Year
    - Cardiovascular system
    - Skin & Musculoskeletal system
    - GIT, Gastrointestina

### Administration

### Activate Windows

Go to Settings to activate Windows.

Administration

- ▶ Site pages
- ▼ My courses
  - ▶ Model answer
- ▼ Courses
  - ▼ Second Year
    - ▶ Cardiovascular system
    - ▶ Skin & Musculoskeletal system
    - ▶ GIT, Gastrointestinal system
    - ▶ Introduction to Patient Care Semester 3
    - ▶ Respiratory and renal systems
    - ▶ Hematology
    - ▶ Health & illness in the community
    - ▶ Introduction to Patient

Category

Question name

Question text

Nerve that can supply the gluteal muscle |

Activate Windows  
Go to Settings to activate Windows

- Administration
- ▶ Incision Academy2
  - ▶ First year
  - ▶ Third Year
  - ▶ fourth year
  - ▶ fifth year
  - ▶ Exam center 2019-2020
  - ▶ القرار الطلاب للموافقه على الامتحان  
الالكتروني للطل...
  - ▶ Professional Diploma in  
Medical Education

Add a block

Add... ▾


One or multiple answers? One answer only ▾

Shuffle the choices? ⓘ

Number the choices? a., b., c., ... ▾


▼ Answers

Choice 1



Grade None ▾

Feedback



Activate Windows  
Go to Settings to activate Windows

Administration

📌 Draft saved.

Choice 2

Rich text editor toolbar with icons for text formatting (bold, italic, underline, strikethrough), lists, links, and media insertion.

X nerve

📌 Draft saved.

Grade

100% ▾

Feedback

Rich text editor toolbar with icons for text formatting (bold, italic, underline, strikethrough), lists, links, and media insertion.

True because that nerve .....

📌 Draft saved.



Choice 3

Rich text editor toolbar with icons for text formatting (bold, italic, underline, strikethrough), lists, links, and media insertion.

Activate Windows  
Go to Settings to activate Windows.

Grade

Administration

Choice 5	
Grade	None ▾
Feedback	

BLANKS FOR 3 MORE CHOICES

▶ Combined feedback

▶ Multiple tries

Activate Windows  
Go to Settings to activate Windows.

Administration

▶ Combined feedback

▶ Multiple tries

▶ Tags

SAVE CHANGES AND CONTINUE EDITING

SAVE CHANGES

CANCEL

There are required fields in this form marked \*



### Navigation

- Home
- Dashboard
- Site pages
- My courses
  - Model answer
- Courses
  - Second Year

## Editing quiz: exam

Questions: 1 | This quiz is open

REPAGINATE | SELECT MULTIPLE ITEMS | maximum grade 10.00 | SAVE

Total of marks: 1.00

Shuffle ?

Page 1

1 | 1 Nerve that can supply the gluteal muscle | 1.00

Activate Windows  
Go to Settings to activate Windows.

- Home
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    - GIT, Gastrointestinal system
    - Introduction to Patient Care Semester 3

Administration

REPAGINATE SELECT MULTIPLE ITEMS maximum grade 10.00 SAVE

Total of marks: 1.00

Page 1

1 1 Nerve that can supply the gluteal muscle

- + a new question
- + from question bank
- + a random question

Activate Windows  
Go to Settings to activate Windows.



Add from the question bank at the end

Select a category:

Default for Training Cour: ▾

- Quiz: exam**
  - Top for exam
  - Default for exam
- Course: Training Course**
  - Top for Training Course
  - Default for Training Course (67)**
- Category: Training Course**
  - Top for Training Course
  - Default for Training Course
- Category: Second Year**
  - Top for Second Year
  - Default for Second Year
- System**
  - Top for System
  - Cardiovascular bank (232)
  - Cell biology and function bank (301)
  - Default for System (32)
  - Health and illness in the community
    - Form ass 5 HIC (10)
    - Form ass 6 HIC (10)

Administration

- Home
- Dashb
- Site pa
- My co
- Mod
- Cours
- Sec
- C
- S
- M
- I
- G
- G
- S
- I
- P
- S
- R

Activate Windows  
Go to Settings to activate Windows.



Administration

Home » Courses » First year » Cell biology and function » Formative assessment CBF » General » 3rd formative assessment CBF

### Navigation

- Home
- Dashboard
- ▶ Site pages
- ▼ My courses
  - ▶ Model answer
- ▼ Courses
  - ▼ First year

## 3rd formative assessment CBF

Attempts allowed: 1

This quiz closed on Friday, 8 January 2021, 11:59 AM

Time limit: 20 minutes

Attempts: 900

BACK TO THE COURSE

Activate Windows  
Go to Settings to activate Windows.



## Navigation

- Home
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  - Model answer
- Courses
  - First year

# 3rd formative assessment CBF

Attempts: 900

▼ Collapse all

## ▼ What to include in the report

Attempts from

Attempts that are  In progress  Overdue  Finished  Never submitted

Activate Windows

to activate Windows.

		Name / Surname	Email address	State	Started on	Completed	Time taken	Grade/10.00	Q.1 /0.67	
<ul style="list-style-type: none"> <li>5th formative assessment CBF</li> <li>6th formative assessment CBF</li> <li>▶ Cases CBF</li> <li>▶ Self Directed learning (SDL) CBF</li> <li>▶ Study guide and portfolio CBF</li> <li>▶ Announcement CBF</li> <li>▶ Lectures and quizzes CBF</li> <li>▶ SDL and case studies Biochemistry</li> <li>▶ Patient, Physician &amp; Society: Introduction to ...</li> <li>▶ Infection and immunity</li> </ul>	<input type="checkbox"/>	2020	██████████@med.aun.edu.eg	Finished	9 January 2021 9:55 AM	9 January 2021 10:01 AM	6 mins 9 secs	9.33	✓ 0.67	
	<input type="checkbox"/>	2020	██████████93@med.aun.edu.eg	Finished	9 January 2021 9:55 AM	9 January 2021 10:15 AM	20 mins	6.67	✗ 0.00	
	<input type="checkbox"/>	2020	██████████	Finished	9 January 2021 9:55 AM	9 January 2021 10:05 AM	9 mins 52 secs	8.67	✓ 0.67	
	<input type="checkbox"/>	2020	██████████8@med.aun.edu.eg	Finished	9 January 2021 9:55 AM	9 January 2021 10:10 AM	15 mins 13 secs	9.33	✓ 0.67	
	<input type="checkbox"/>	2020	██████████8@med.aun.edu.eg	Finished	9 January 2021 10:06	9 January 2021 10:06	10 mins	10.00	✓ 0.67	
	Activate Windows Go to Settings to activate Windows.									

average	9.27 (899)	0.62 (899)
---------	------------	------------

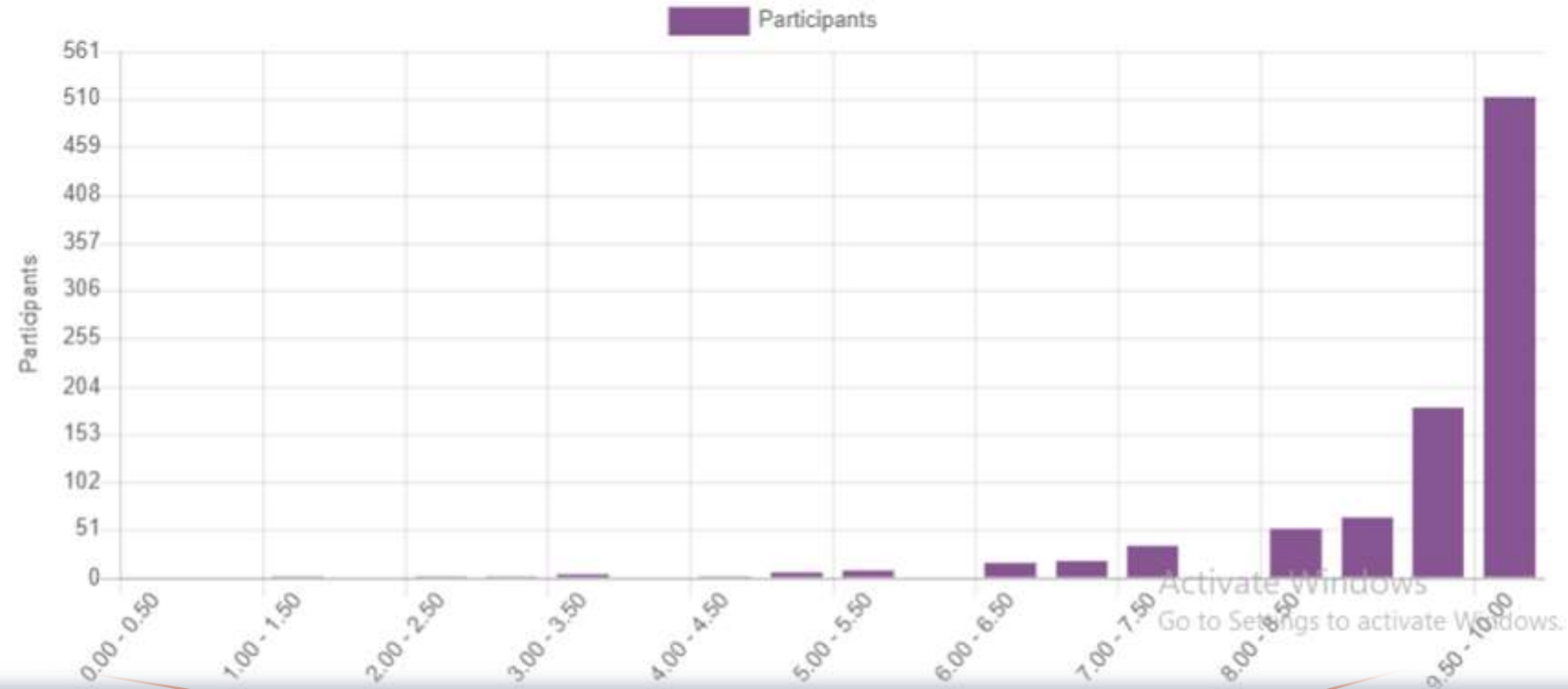
Select all / Deselect all

REGRADE SELECTED ATTEMPTS

DELETE SELECTED ATTEMPTS

Page: 1 2 3 4 5 6 (Next)

### Overall number of students achieving grade ranges



General

- News forum
- 1st formative CBF
- 2nd formative assessment
- 3rd formative assessment CBF**
- 4th formative assessment
- 5th formative assessment CBF
- 6th formative assessment CBF
- Cases CBF
- Self Directed learning (SDL) CBF

Only one attempt per user allowed on this quiz.

Reset table preferences

First name: **All** A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Surname: **All** A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Page: 1 2 3 4 5 6 (Next)

Download table data as

Comma separated values | **DOWNLOAD**

**Comma separated values (.csv)**

Microsoft Excel (.xlsx)

HTML table

Javascript Object Notation (.json)

OpenDocument (.ods)

	First name / Surname	Email address		Time taken	Grade/10.00	Q. 1 /0.67	
<input type="checkbox"/>	2020 Review attempt	[Redacted]@med.aun.edu.eg	Finished	6 mins 9 secs	9.33	✓ 0.67	
<input type="checkbox"/>	2020 العال Review attempt	[Redacted]@med.aun.edu.eg	Finished	20 mins	6.67	✗ 0.00	

Activate Windows  
Go to Settings to activate Windows.



### Quiz navigation

- 1 ✓
- 2 ✓
- 3 ✗
- 4 ✓
- 5 ✓
- 6 ✓
- 7 ✓
- 8 ✓
- 9 ✓
- 10 ✓
- 11 ✓
- 12 ✓
- 13 ✓
- 14 ✓
- 15 ✓

Show one page at a time

Finish review



2020 [Redacted]

Started on	Saturday, 9 January 2021, 9:55 AM
State	Finished
Completed on	Saturday, 9 January 2021, 10:01 AM
Time taken	6 mins 9 secs
Marks	14.00/15.00
Grade	9.33 out of 10.00 (93%)

#### Question 1

Correct

Mark 1.00 out of 1.00



A 16 year old female presents with xanthomas on her eyelids. She is found to have a rare genetic deficiency of lipoprotein lipase and is diagnosed with type 1 hyperlipidemia. In this disorder chylomicrones are abnormally elevated in the serum. In what type of cell are triacylglycerols packaged in to chylomicrones?

Select one:

Activate Windows  
Go to Settings to activate

- ▶ Lectures and quizzes CBF
- ▶ SDL and case studies Biochemistry
- ▶ Patient, Physician & Society: Introduction to ...
- ▶ Infection and immunity
- ▶ Mechanism and principles of disease and therapy
- ▶ Introduction to Patient Care Medical Interviewing...
- ▶ Incision Academy
- ▶ practical exam (2019-2020)
- ▶ Study guide and portfolio of principles of studyin...

Q#		Question name	Attempts	Facility index	Standard deviation	Random guess score	Intended weight	Effective weight	Discrimination index
1	⋮	*	899	93.66%	24.38%	25.00%	6.67%	6.08%	30.66%
2	⋮	*	899	94.22%	23.36%	25.00%	6.67%	5.93%	30.86%
3	⋮	*	899	84.43%	36.28%	25.00%	6.67%	8.96%	47.27%
4	⋮	*	899	93.66%	24.38%	25.00%	6.67%	6.61%	39.12%
5	⋮	*	899	95.88%	19.88%	20.00%	6.67%	6.43%	50.08%
6	⋮	*	899	85.32%	35.41%	25.00%	6.67%	8.28%	38.53%
7	⋮	*	899	95.33%	21.12%	20.00%	6.67%	6.32%	43.77%

Activate Windows  
Go to Settings to activate Windows.



# *MESSAGE TO TAKE HOME*





Any  
Questions