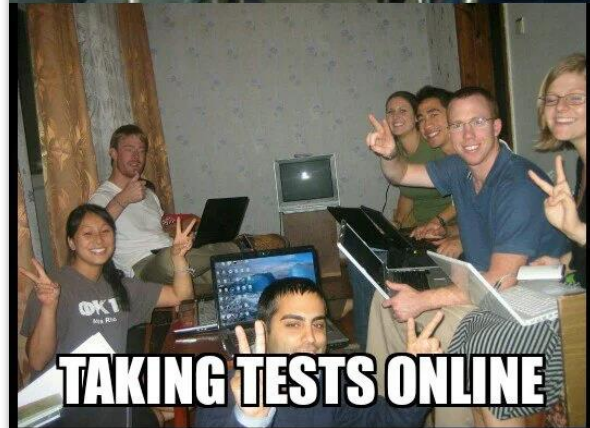
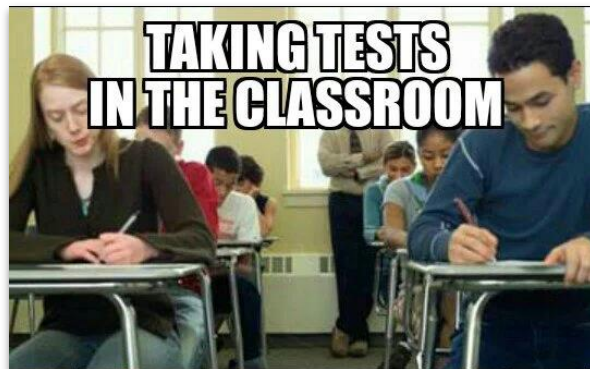
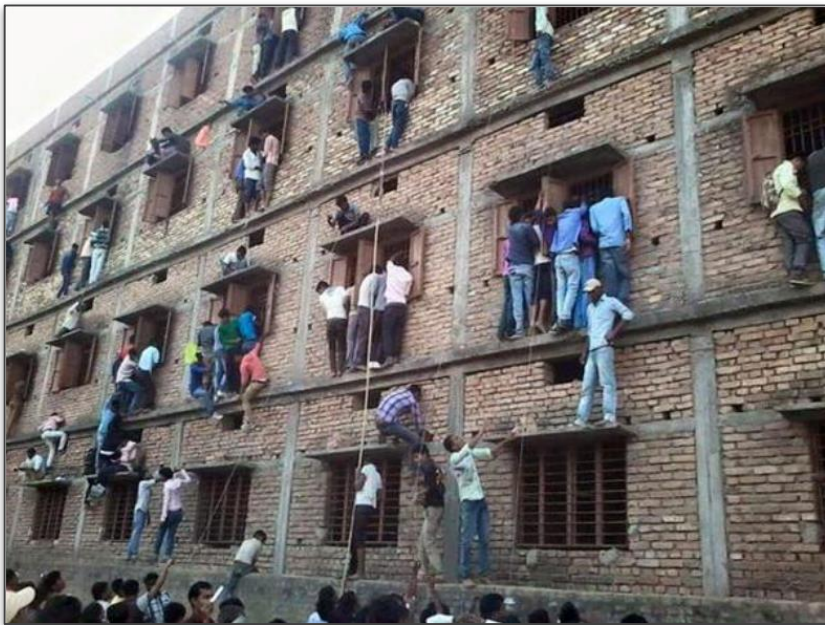


השגחה בבחינות מקוונות

Proctoring online Exams

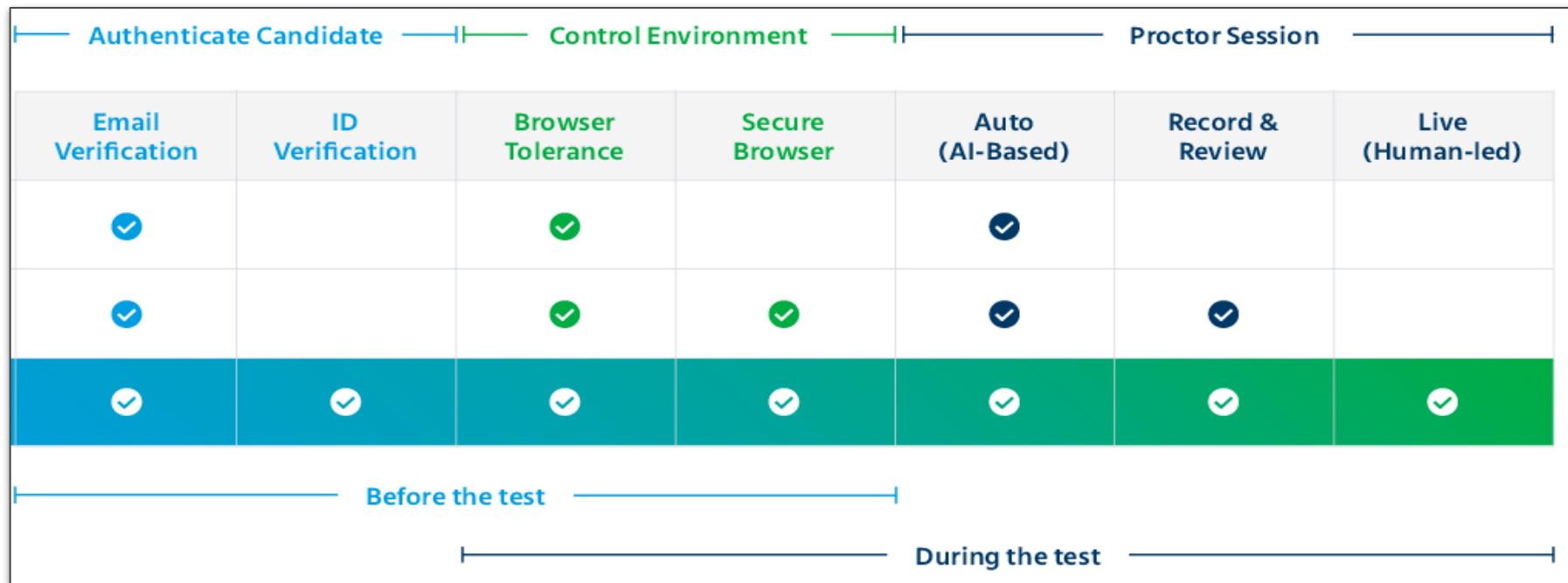
אתגר ההשגחה על בחינות ביתיות בכתיבה חופשית



תהליך הבחינה...



שלבים בתהליך הבחינה...



ניטור הנבחנים



מאפיינים טכנולוגיים בולטים בשירותים קיימים

אשר עלו בעת סקירת פתרון להשגחה בבחינות מרוחקות עצמאיות

— — —

- Fully automatic (AI) proctoring
- Live proctoring (\$\$\$)
- Media Record & review
- Secure browser
- Mobile phone usage prevention (?)
- Frequent ID checks
- 360 Cameras
- Biometric keystrokes
- Audio identity test
- Plagiarism detection
- Wearables (video camera glasses)

זיהוי ראשוני של הנבחן



מעקב מולטימדיה אחר הנבחנים בזמן הבחינה

BatchesAnalyticsResultsLive Feed

All BatchesShow : AllMake Announcement

17Shyam

Sangeet

2Vishakha

Tanya

Disconnected
Nirbheek
Details

Nikesh

Christina

6Shaiz

Nikshap

1Prajapati

Angela

Anshul

2

Prajapati

Christina

Nikshap

Anshul

Angela

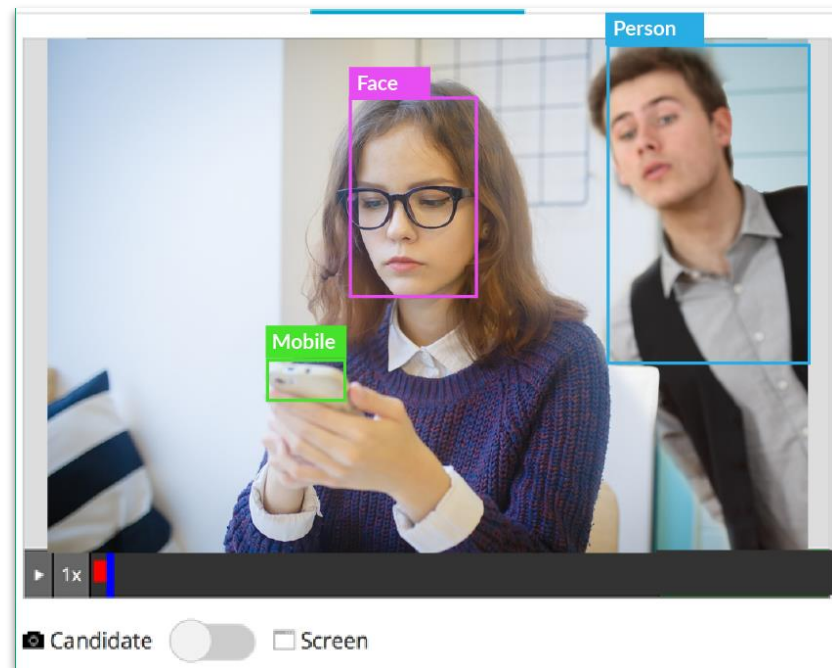
Swati

Me4:30 pm
Do not navigate away again

Swati4:30 pm
It happened by mistake actually.

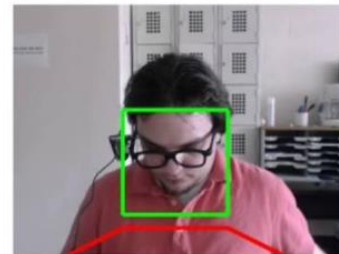
זיהוי ופענוח פעילות חשודה

מבוסס מערכות פענוח תמונה/וידאו



משקפי וידאו

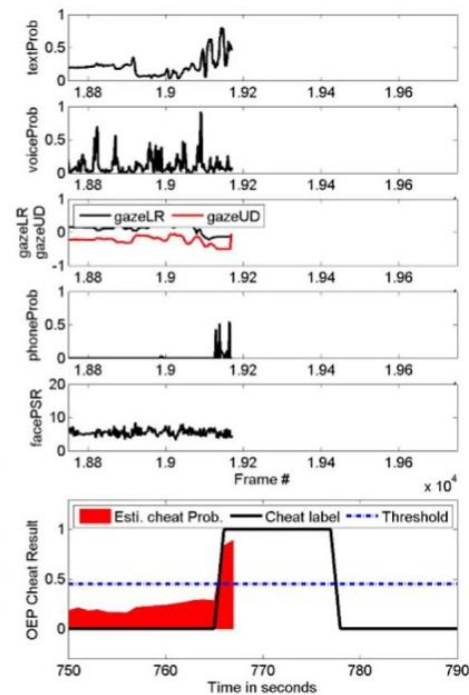
ניטור מתקדם



Webcam

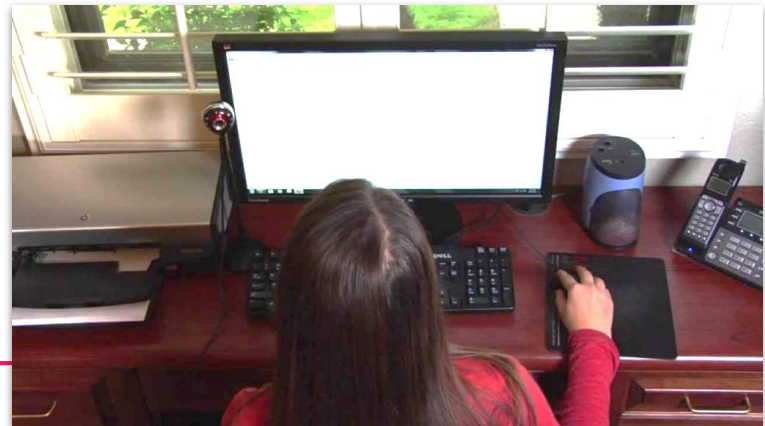


Wearcam



צילום הסביבה

ניטור מתקדם



סקירת חברות Proctoring



השוואת בין תכונות של שירותי Proctoring

Company	TeSLA	Respondus	Examity	eProctoring	Proctorio	ProctorU	Smowl	Mettl	Proctortrack	ProctorFree
Technology	Open source	Proprietary	Proprietary	Proprietary	Proprietary	Proprietary	Proprietary	Proprietary	Proprietary	Proprietary
Country	Europe	US	US	US	US	US	Spain	India	US	US
Used by Institutes		1500	500		400	1000		2000		
Automation	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Live person		Y	Y		Y	Y		Y	Y	
Own exams	Y									
Support math										
Video/Audio recording	Y	Y	Y	Y	Y	Y	Y			
Snapshots of User		Y		Y			Y		Y	
Exam screen recording						Y		Y	Y	
Face recognition	Y				Y		Y		Y	
AI video detections				Y	Y	Y	Y	Y	Y	
Voice verification										
ID checks		Y	Y	Y	Y	Y	Y	Y	Y	
Keystroke biometrics	Y		Y			Y	Y			
Safe exam browser				Y				Y		
Lockdown browser		Y			Y	Y			Y	
Browser extension						Y				
Moodle integration		Y	Y	Y	Y	Y	Y			Y
360 Camera			Y							
Mobile phone detection								Y		
Plagiarism detection	Y				Y					
Record & review		Y		Y	Y	Y	Y	Y		Y
Payment gateway						Y		Y		
Personal questions						Y		Y		
GDPR compliant					Y		Some			
Accessibility					Y					
Location detection							Y			

TeSLA

Available end of 2020



- ★ Exams
- ★ Student webcam monitor
- ★ Biometric keystrokes
- ★ Face recognition
- ★ Audio identity test
- ★ Forensic Analysis
(Stylometry)
- ★ Plagiarism

An Adaptive Trust-based e-assessment System for Learning Overview

Call submitted
Horizon2020 – INFORMATION AND COMMUNICATION TECHNOLOGIES
Topic: Technologies for better human learning and teaching.
Type: Innovation Action, with Large Scale Pilots.



Funded by
the European Union

Project Number: 688520 – TESLA – H2020-ICT-2015/H2020-ICT-2015
Agreement Number: 688520

Moodle + LTI (Open source)

Tomax

Beta testing

- ★ Exams
- ★ Student webcam monitor

Israeli company



Respondus

(used by 65%)

-
-
-
- ★ Own Exams service
 - ★ Safe browser
 - ★ Student webcam monitor
 - ★ AI proctoring
 - ★ LockDown Browser



PRODUCTS

Respondus 4.0

[Videos](#)

[Webinars](#)

[Guides](#)

[Trial](#)

[Pricing](#)

[Articles](#)

[LockDown Browser](#)

[Monitor](#)

[StudyMate](#)

[Test Bank Network](#)

Respondus 4.0

Easily create and manage
online assessments



Respondus is a powerful tool for creating and managing exams that can be printed to paper or published directly to Blackboard Learn, Brightspace, Canvas, Moodle, and other learning systems. Exams can be created offline using a familiar Windows environment, or moved from one LMS to another. Whether you are a veteran of online testing or relatively new to it, Respondus will save you hours on each project.

Authoring Features

- Distinct user environments (called "personalities") for Blackboard Learn, Brightspace, Canvas, Moodle, and IMS QTI (see [system requirements](#))
- Create exams and assessments offline using a Windows interface
- Supports up to 15 question types, including calculated and algorithmic formats
- Import questions from MS Word (including embedded images), rich-text, QTI, and tab/comma delimited formats
- Access to thousands of Respondus-compatible [publisher test banks](#) – FREE to instructors who adopt a participating textbook

[VIEW MORE](#)

Preview, Publish and Printing Features

- Preview questions before publishing them to the LMS
- Publish exams and assessments directly to an online course (media files are automatically uploaded)

ProctorU

- ★ AI-powered auto
- ★ live proctoring
- ★ ID authentication
- ★ Safe browser
- ★ Student webcam monitor

Moodle + LTI

The screenshot displays the ProctorU interface for a Moodle LTI quiz. The main window is titled "Math 101 · Quizzes · Quiz #1". It features a sidebar on the left with navigation icons and a central area for quiz instructions and a question list. A "Settings" sidebar on the right allows for configuring exam security and permitted resources.

Math 101 · Quizzes · Quiz #1

Quiz #1

Quiz Instructions:

Choose exam security level

- ☒ Recommended - This is the most secure exam setting and is suggested by ProctorU for most exams
- ☐ Custom - Customize the security settings to fit your exam needs

Test-taker resources

☒ No permitted resources allowed

Books

- ☐ Textbook
- ☐ Ebook (Computer)
- ☐ Ebook (Website)

Calculators

- ☐ Four Function Calculator
- ☐ Scientific Calculator
- ☐ Graphing Calculator
- ☐ Computer's Calculator
- ☐ Online Calculator
- ☐ Financial Calculator

Notes

- ☐ Handwritten Notes
- ☐ Note Cards
- ☐ Printed Notes
- ☐ Formula Sheet
- ☐ Notes (PDF)
- ☐ Notes (Word)
- ☐ Notes (Powerpoint)
- ☐ Notes (Excel)


Web

- ☐ Course Website
- ☐ Pre-approved Website
- ☐ All websites

Back **Continue**

Proctorio

- ★ Exams
- ★ Safe browser
- ★ Student webcam monitor

 proctorio

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Uphold the integrity of every exam with Proctorio's unmatched flexibility and scalability.

For Faculty →

Secure your test with a click of a button, and without changing any course content.

For Students →


Proctorio protects your academic achievements, so you get to compete on a level playing field.

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Get up to twenty
free proctored exams
when you add Proctorio
to a course today!

[REQUEST A DEMO](#)



Examity

- ★ Exams
- ★ Safe browser
- ★ Student webcam monitor
- ★ Challenge questions
- ★ Biometric keystrokes

**examity**[®]
BETTER TEST INTEGRITY.

About Us ▾ Online Proctoring ▾ FairExam® Levels ▾ examiLINK® Integration ▾ FAQs ▾ Contact Us 🔍

Level AA

Level LA

Level 1


Level 2

Level 3

Level AA: Auto-Authentication

Designed for lower stakes assessments and meeting accepted standards. Test-takers snap pictures of their ID and face, answer challenge questions and enter a biometric keystroke signature to verify identity.

View our live authentication and online proctoring solution



- ★ Exams
- ★ Safe browser
- ★ Student webcam monitor
- ★ Challenge questions
- ★ Biometric keystrokes

Moodle + LTI

DigiExam

THE PRODUCT THE COMPANY USER STORIES CAREERS SUPPORT LOGIN

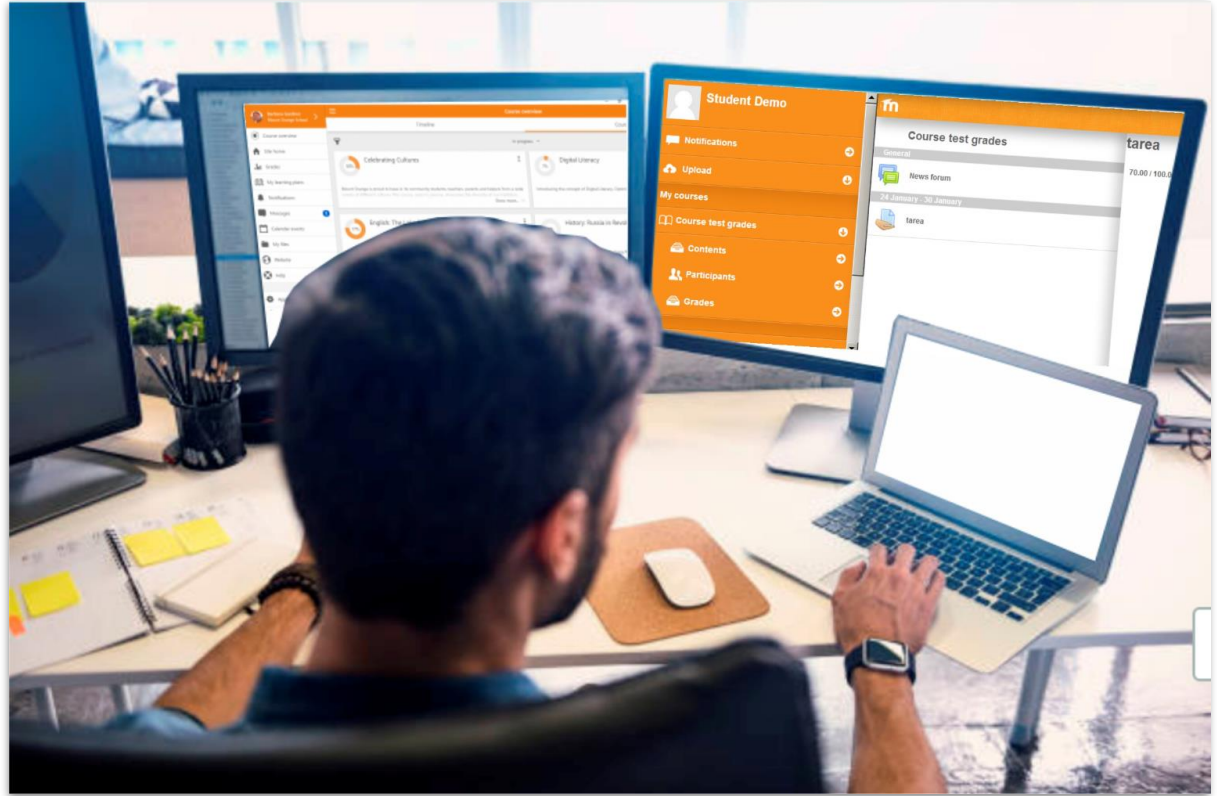
Join the revolution of exams

...a worldwide platform for creating, delivering and grading exams

[SALES DEMO](#) [SHOW ME MORE](#)

eProctoring


- ★ Own exams
- ★ Safe browser
- ★ Student webcam monitor
- ★ AI monitoring



ספר דיגיטלי חדש

התגוננות בפני רמאויות והעתקה
במבחנים מקוונים

Phillip Dawson @phillipdawson

 **Phillip Dawson**
@phillipdawson

Submitted my book "Defending Assessment Security in a Digital World: Preventing E-Cheating and Supporting Academic Integrity in Higher Education" to Routledge yesterday! Hope we can get it out ASAP, lots in there for the COVID-19 online shift

[Defending Assessment Security in a Digital World: Preventing E-Cheating and Supporting Academic Integrity in Higher Education](#)






Phillip Dawson

[List of chapters](#)

Chapter 1.	E-cheating	8
Chapter 2.	Assessment security	24
Chapter 3.	The e-cheating lifecycle and how to disrupt it.....	41
Chapter 4.	Cybersecurity, e-cheating and assessment security	59
Chapter 5.	Lessons from e-cheating in games and gambling	69
Chapter 6.	E-cheating, assessment security and artificial intelligence.....	81
Chapter 7.	Surveillance and the weaponization of academic integrity.....	94
Chapter 8.	Metrics and standards for assessment security	103
Chapter 9.	Structuring and designing assessment for security	121
Chapter 10.	Conclusion: Securing assessment against e-cheating	133

4:07 AM · Apr 9, 2020 · [TweetDeck](#)

שמירה על טוהר בחינות בכתיבה חופשית מרחוק בקנה מידה גדול

- מה היא מערכת הקלט המתאימה לבחינות בכתיבה חופשית מרחוק ולבקרתן? 
- כיצד מוודאים כי הנבחן משתמש רק בחומר העזר המותר בבחינה? 
- כיצד בודקים שהנבחן אינו מתקשר לעזרה לאנשים אחרים? 
- איך מוודאים שהנבחן אינו נעזר באינטרנט או בכלי תקשורת אחרים כדי לפתור את הבחינה? 
- נדרש פתרון בעלות נמוכה ופתרון המאפשר התקנה בהיקף גבוה (אלפי נבחנים) 
- כיצד מזהים את הנבחן לאורך כל הבחינה? 