

Remote Assessments – Online

1. Examinee Instructions
2. System Requirements
3. Dos and Don'ts
4. Guidelines to Debug Examinee System – Technical Issues

Version 4.6





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Table of Contents

Instructions for Examinee	4
Availability of WebCam:	4
Active, dedicated Internet bandwidth	5
Firewall & Proxy Setting	5
System Screen Resolution	5
Browser Setting	5
Zoom Level:	5
Camera Access:	6
Anti-virus	7
Important Step - Launcher Details	7
Links to Download the launcher:	7
General Troubleshooting	9
Live Chat Feature	10
Steps to take the Exam and generate Unique Key to launch the Launcher:	14
Examinee Dos and Don'ts for Remote Assessment:	22
Before Start of Exam	22
Things 'To Do'	22
Things 'Not to Do'	23
During Exam	24
Things 'To Do'	24
Things 'Not to Do'	24
Post Exam	24
Things 'To Do'	24
Things 'Not to Do'	25
General Guidelines to be followed for taking the exam:	25
Answering a Question :	25
Answering a Multiple-Choice question	25
Navigating to a Question:	25
Navigating through Sections:	25



Subject Specific Instructions:25

Steps to Debug General System Issues while taking Remote Assessment: 26

Resolving Camera Issues in Chrome26

 Camera details not appearing in the camera dropdown 26

 Browser not able to access HD Camera 27

How do I know if I have Administrator Rights? 29

 Windows Operating System 29

How do I assign administrator rights to my login? 30

 Windows Operating System 30

Installing Windows 10 OS alongside Mac OS system 33

Installation Procedure 34

Instructions for Examinee

In view of the current pandemic and lockdown in the Country, we are giving option to candidates to appear for the National Qualifier Test as a Remote Proctored Assessment. This choice is given to allow you to give your Exam from the safety and security of your home, without the inconvenience of travel.

To ensure that the exam can be successfully completed by you from your home and using your system, we have enhanced the overall exam process to provide a seamless experience.

The Key objective of this process is to ensure that your system is checked and configured as per the needs of taking this exam remotely. In case of any issues arise, the same will be resolved in the time allotted during the IRC/DRC, post which you will appear for a Mock assessment (DRC).

The 3- Step process as described below, will help you check the infrastructure readiness and will help you prepare and get ready before the assessment on the exam day.

Step-1: **Infrastructure Readiness Check (IRC)**

Step-2: **Dry Run Check (DRC)**

Step-3: **Actual Exam**

Step- 1 / Step-2: Infrastructure Readiness Check (IRC)/ Dry Run Check

In this step, ensure that your systems and internet bandwidth and speed are checked as against the requirement of taking the Remote Assessment.

The following aspects will be checked on your system:

1. Operating System
2. Versions of required software installed in the computer and its security control levels – example – Browser, its version and its security settings
3. Adequate Internet Upload/Download Speed availability
4. Appropriate Camera installation on your system and its configurations
5. Any other software installed in the computer (like anti-virus, permissions to write in the disk etc.)

These Steps are planned over a 3-day period, so that every Examinee can get this check done as per their convenience. Once complete, this step will help ensure that your infrastructure is ready for the Exam

In case you face any issues during this process, you will have the option to communicate the issue to the Technical Helpdesk. You will need to log your issue with the Online Live Chat and get required special attention in resolving your issues. Once the Technical issues are resolved, and the checks are successfully completed, your system would be ready for the exam.

Availability of WebCam:

The system to be used must have either an integrated WebCam or an attached WebCam. a) Ensure the WebCam is functioning.

To check this –

- i. Open WebCam application installed on the system (e.g. Type 'Webcam' in search bar to locate Application).
 - ii. Take few sample pictures and video of self.
- b) Ensure uninterrupted and exclusive access to the WebCam.
- c) Close all third-party applications installed on your system to capture images or videos from your system, including YouCam
- d) Uninstall YouCam software for the duration of assessment

Active, dedicated Internet bandwidth

Active & uninterrupted internet connectivity is required throughout the session. In case of WiFi connection please ensure that, at the time of attempting the assessment limited users are connected to the same network. This will ensure optimal bandwidth during your session.

Firewall & Proxy Setting

For a system with active Firewall, ensure that the firewall setting is turned "off" for the duration of assessment.

Login as 'Admin' on your System and disable all Proxy setting

System Screen Resolution

Please ensure system screen resolution is set to 1024*720 only.

Please refer following links to change systems resolution based on operating system

Windows : <https://www.youtube.com/watch?v=3GdKiUAnyHc>

Ubuntu : <https://help.ubuntu.com/stable/ubuntu-help/look-resolution.html.en>

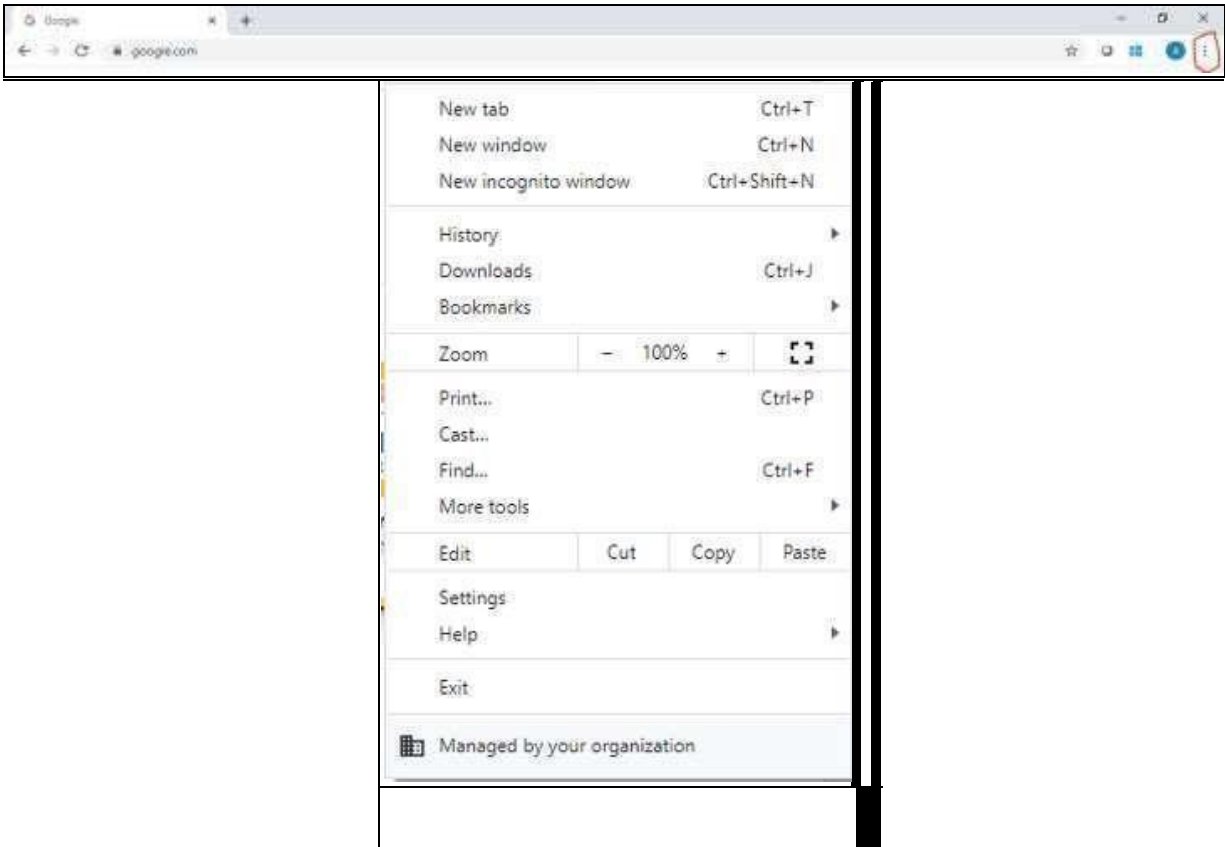
Browser Setting

Recommended Google Chrome browser for best experience

Please verify the following key check points in browser setting before starting self-registration or the Assessment.

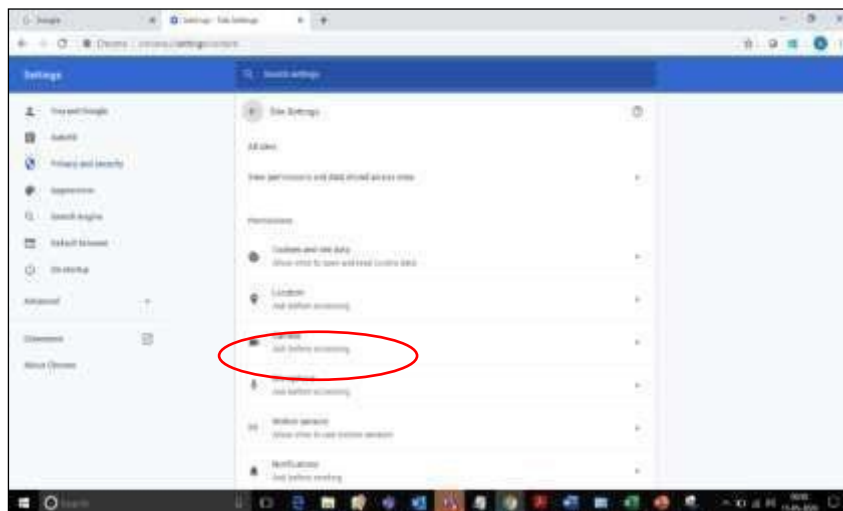
Zoom Level:

Set the browser zoom level to 100%.
Please access the zoom level setting by clicking on the three vertical dots displayed on the right hand corner of your browser window as shown



Camera Access:

Access to camera is “allowed” for browser.
On google chrome, please navigate to **Settings->Privacy and Security->Camera**



Please follow steps mentioned in the linked website for more information about browser access to camera

<https://support.google.com/chrome/answer/2693767?co=GENIE.Platform%3DDesktop&hl=en>

Note: In case you are using Organization-controlled system, it is possible that organization's security policy would require Admin access to change these settings.

Anti-virus

Anti-Virus programs running in background could generate system alerts from time to time. These system alerts would impact running of Assessment Application and possibly stop ongoing assessment session.

To avoid such a situation, please temporarily disable/stop the antivirus program.

For steps and instructions to disable/Stop anti-virus program during the assessment period, please follow the steps provided by your antivirus program.

In case using a system managed by an Organization, Administrator access may be required to disable anti-virus protection program.

A personal system with full access (administrative level) and control is recommended

Important Step - Launcher Details

It is very much essential to have the iLEON launcher downloaded and kept ready in the system from which you will be taking the exam well in advance to avoid last minute kiosk on the day of exam. If you have already downloaded the same as part of the IRC or DRC check you continue to use the same iLEON launcher.

Links to Download the launcher:

You can also download the suitable launcher from the below direct links and keep it ready and use for IRC/DRC and Actual Exam. You cannot take the remote assessments online without this iLEON launcher.

Windows Zip:

<https://learning.tcsionhub.in/OnlineAssessment/Launcher/IBAWindowsLauncher.zip?1.00.01.51>

Windows Exe:

<https://learning.tcsionhub.in/OnlineAssessment/Launcher/IBALauncher.exe?1.00.01.51>

Ubuntu 16-32 Bit :

<https://learning.tcsionhub.in/OnlineAssessment/Launcher/IBALauncherLeon32.tar.gz?1.00.01.51>

Ubuntu 16-64 Bit :

<https://learning.tcsionhub.in/OnlineAssessment/Launcher/IBALauncherLeon64.tar.gz?1.00.01.51>

You will have to run the exe file as Administrator while launching the same. But before that please read through the login page to take the assessment and you will have to complete the Self Registration. Generate the unique key to launch the launcher and this activity can be done only during the registration time as per exam shift timings. (Details are given in the section - **Steps to take the Exam and generating the Key to launch the Launcher**)

Details of OS and Supported Browsers for iLEON App 1.

- Windows 10, 7 - Google Chrome - All versions.
- 2. Windows 10 - Firefox - Not supported 3. Windows 7 - Firefox - Version 46 to 56.
- 4. Safari – Not Supported.
- 5. MAC OS – Not supported.

Note: In case of a desktop or laptop running Windows 7 operating system, please check and ensure it has the latest Service Pack installed.

There are two approach to determine the **Service Pack** installed Service Pack

Check – Approach 1

- a) Click Start button
- b) Right-click on “Computer” icon
- c) Click “Properties”.

- d) Check basic information about your computer configuration displayed - If Service Pack 1 is listed under Windows edition, SP1 would be already installed on your computer.

Service Pack Check – Approach 2

- (a) Click Start button
- (b) Locate Search programs and files text box
- (c) Type **winver** in the box space
- (d) Click on winver exe



- (e) Service Pack information will be displayed along with Windows Version



Note: If Service pack 1 is not installed, follow the instructions to download and install SP1 from following URL <https://www.microsoft.com/en-us/download/details.aspx?id=5842> – Repeat the above steps to verify the version again.

- In case the Service pack is not installed, please arrange for a separate system to take the exam.
- In case an error encountered says “Failed to execute script main” it is an indication of incorrect Operating System being used.

General Troubleshooting

In case any issue is encountered during course of Assessment with an error message indicating Session is “locked”,

1. Press "Right Shift + Esc" key to exit ongoing Assessment
2. Close Application
3. Open new session on Browser
4. re-login to the assessment website using the credentials provided in email
5. Generate a new key
6. Launch the assessment using the new key

Please ensure the browser has full access to WebCam and there are no running and active firewall and/or antivirus programs

Live Chat Feature

Remote Assessments (RA) - Online provides a very helpful feature to candidates which gives them the option to use Live Chat feature to chat directly with the Help Desk agents, in case of any queries they might have before or after the login. This can be used for quick resolution

Please note the feature will be available or visible **ONLY** if the examination conducting body decides to make this feature available for Examinees.

Steps to use this feature.

1. Access the assessment URL on a browser of your choice (Chrome recommended) from the system you are going to use for taking the assessment.
2. Wait for the log in screen as shown



3. Live Chat option can be seen at the bottom right of the screen. Click on Live Chat



below

4. The following screen appears. Wait for the Live Chat to load.



5. Enter the following details as shown below and Click "Send" button.
- a. First Name
 - b. Last Name
 - c. Description of the query



6. Wait for the agent to get connected and assist you with your queries.



7. Once the agent is available, you can start chatting with the agent for query resolution. After typing your query, click on "Send" and wait for the agent's response.



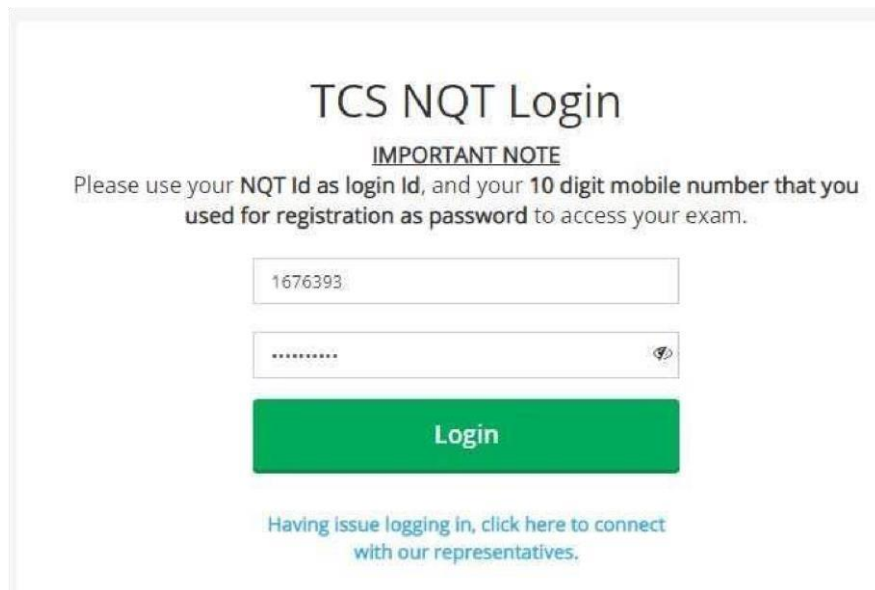
8. Once the issue is resolved or you have got the satisfactory response to your query, please close the chat window and proceed further by logging into the assessment.



Please note this Live chat option will be available only on the login page for the exam event. Once the assessment is launched Live Chat will not be available. If there are any issues faced during the self-registration or before start of the test, to connect to the helpdesk agent, you will have to come to the main login page.

Steps to take the Exam and generate Unique Key to launch the Launcher:

1. Access the URL to take the assessment sent to your registered email id on a browser of your choice (**Chrome recommended**) and from the system you are going to take the assessment.
2. Examinees will be invited to take the exam in shifts which will be communicated to your registered email.
3. Login Link to take the Actual Exam, will be communicated over email
4. Wait for the log in screen as shown below. Enter the correct username and password as provided in the email sent to your registered email ID (Login with your NQT Registration Number and 10 Digit Mobile number as password).



The screenshot shows the TCS NQT Login interface. At the top, it says 'TCS NQT Login'. Below that is an 'IMPORTANT NOTE' in red text: 'Please use your NQT Id as login Id, and your 10 digit mobile number that you used for registration as password to access your exam.' There are two input fields: the first contains the number '1676393' and the second contains a masked password '*****'. Below the password field is a green 'Login' button. At the bottom, there is a link in red text: 'Having issue logging in, click here to connect with our representatives.'

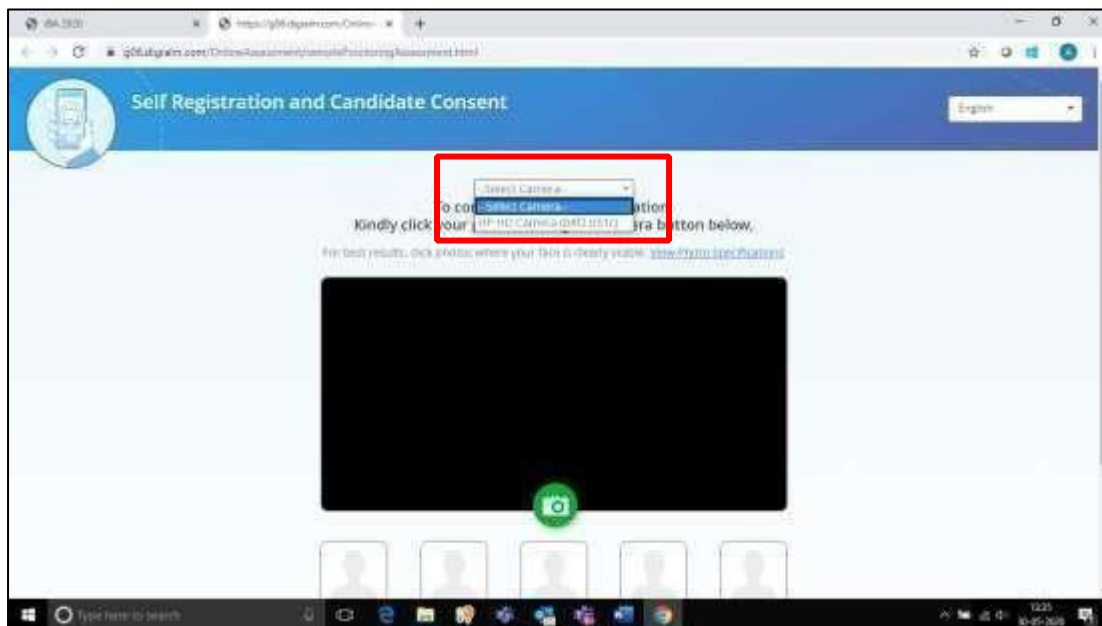
5. Click **Login** to proceed. You will be able to see the Exam event scheduled either in the Ongoing Events or in Upcoming Events as per scheduled Exam date and Shift timings sent to your registered email id.



The screenshot shows two sections: 'Ongoing Events' and 'Upcoming Events'. Each section has a cloud icon with three laptops inside. The 'Ongoing Events' section shows 'TCS National Qualifier Test DRC 19th Oct 2020 Sr S1' with a start time of '19 Oct 2020 08:00 AM' and an end time of '19 Oct 2020 11:30 AM IST'. A green 'Ended' button is visible. The 'Upcoming Events' section shows 'TCS National Qualifier Test DRC 19th Oct 2020 Sr S3' with a start time of '19 Oct 2020 05:00 PM' and an end time of '19 Oct 2020 08:30 PM IST'. A green 'Upcoming Event' button is visible.

Launch button will be enabled in the above screen one hour prior to the exam start time to complete the Self-Registration process. Complete the Self Registration process well before the exam start time

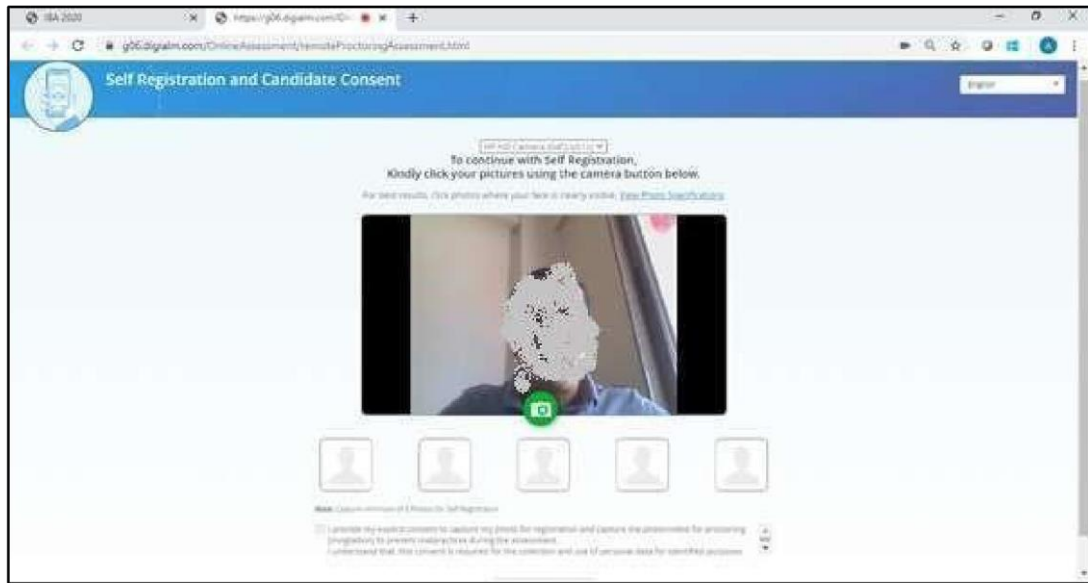
6. Enable Pop-ups, if prompted.
7. **Self-Registration and Candidate Consent** screen will appear.
8. On top of the screen, a dropdown to select the camera will appear.
9. Click on the drop down and select the camera that you want to use.



10. “Allow” the browser to use your device camera to capture your photo/video **Note:**

Instructions to capture your photo:

- a. *Ensure your Face is well-lit – Avoid low light or light source behind you,*
- b. *Ensure your Face occupies more than 50% of the boundary.*
- c. *Look straight into the camera such that entire frontal view of face is clearly visible.*
- d. *Ensure face is not covered by object (e.g. Sunglasses).*
- e. *Capture 5 photos for self-registration.*



11. Check your picture visible on the photo window.
12. In case you see a red border around any image, please click on that image and capture your photo once again.
13. Read Undertaking content

- ☐ I provide my explicit consent to capture my photo for registration and capture the photo/video for proctoring (invigilation) to prevent malpractices during the assessment I understand that, this consent is required for the collection and use of personal data for identified purposes. i.e., invigilation and analysis.
- ☐ I understand that my images will not be shared with any third party and will be retained for only as long as is required for the identified purposes

14. Select the check-box to provide consent and click on Validate button.

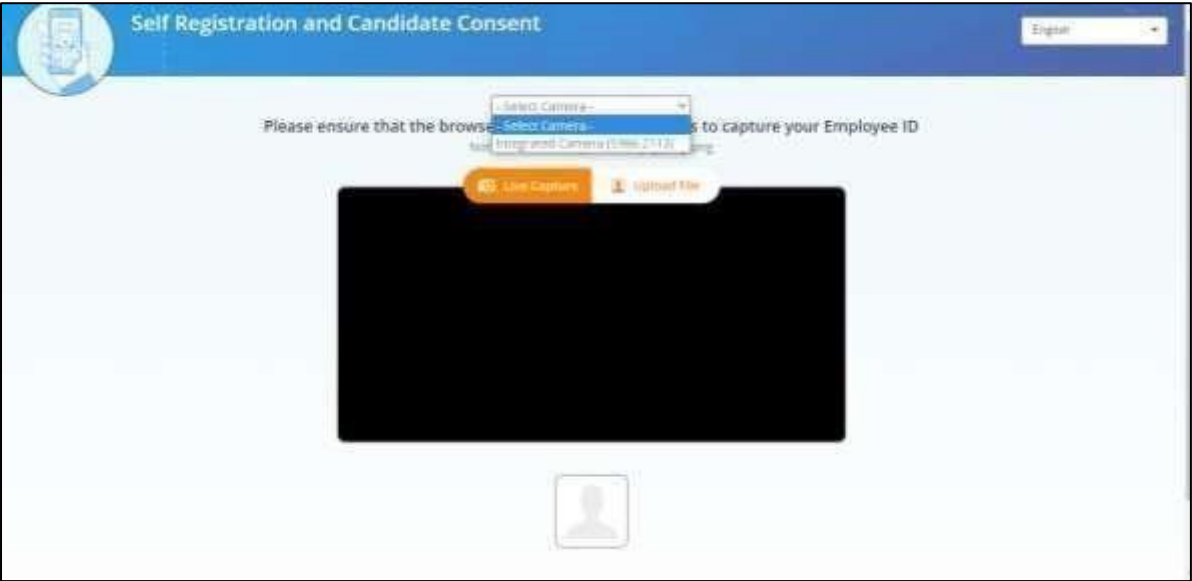
Note: Your personal data including captured photo/video is used only for proctoring and will not be shared with any third party.

15. Next on screen appears the page to upload the document to be captured as an identify proof.

Please note the option to capture the identify proof document depends solely as per the examination body's decision. If prompted follow the steps as shown below.



16. In case of "Live Capture", select the camera from the drop down and click on "Live Capture" OR browse & upload the document.



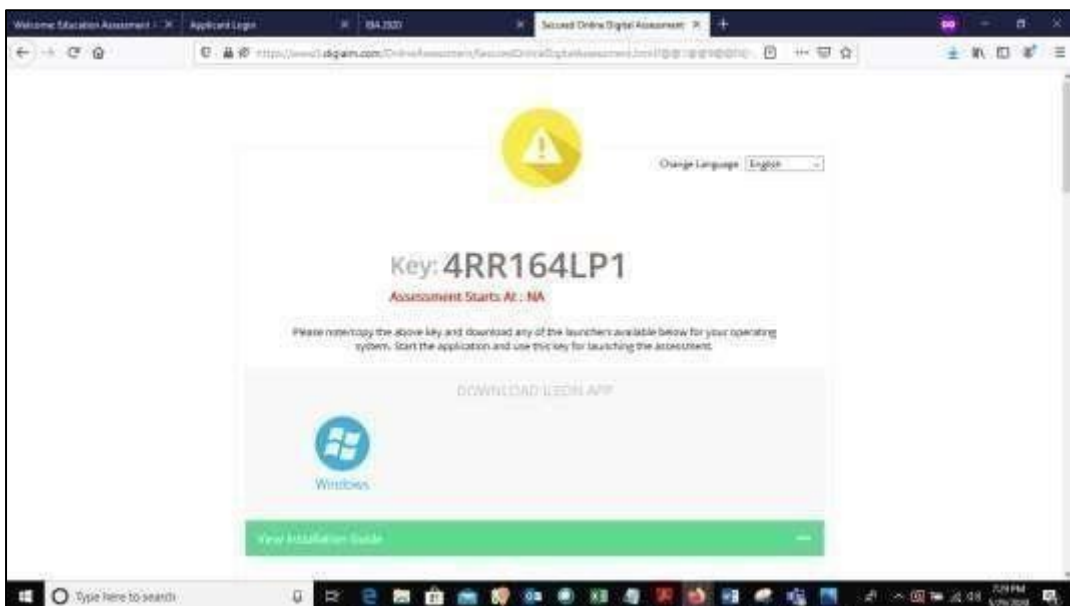
17. Display your identify proof document on screen. Ensure the area is well lit & document is properly visible in front of camera. **Do not capture your image in this section. Your ID Proof document image MUST be captured here**



18. Click on Save to capture the ID.



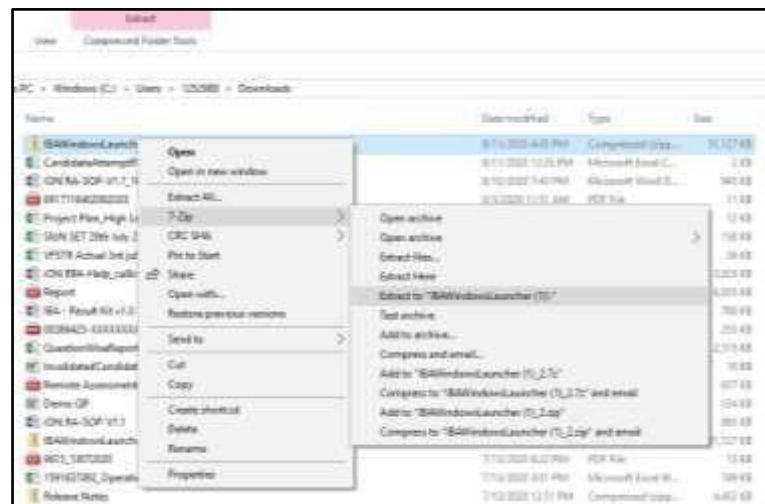
19. A message on screen will appear as "A Proctor will be assigned to you soon to approve your request." Once approved, the below screen appears to download the launcher along with the unique key displayed on screen. It is important to upload the correct document as per Instructions.



20. Select the language of your choice from the top-right corner drop down menu on the screen.
21. Write down the unique key displayed on the screen in a piece of paper. **Note:**

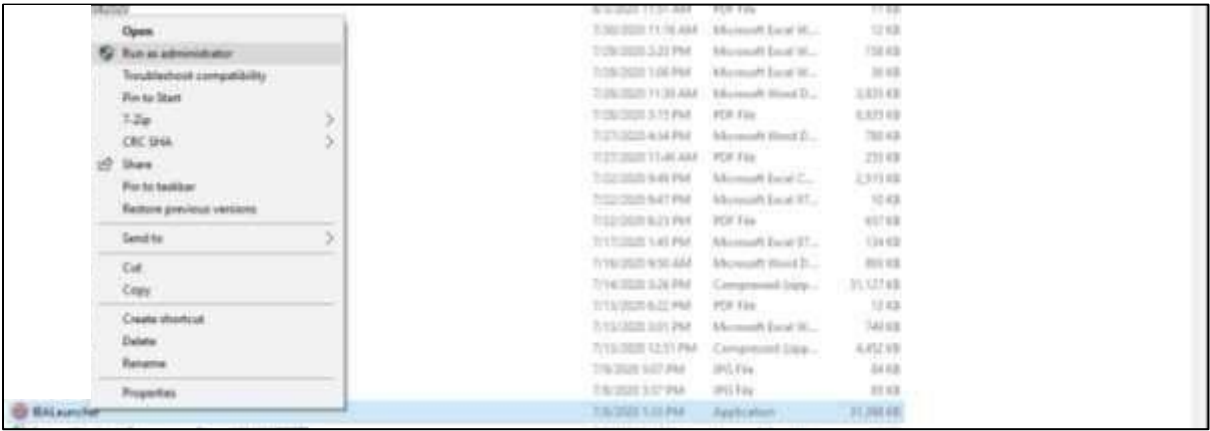
Once you start the launcher all the applications will be closed, hence it is mandatory to write the Unique key in a piece of paper and enter the same when you start the launcher. The Unique key (token) generated is valid for the entire duration of the assessment unless the internet session is disconnected. If the internet is disconnected, a new unique key is generated.

22. Click on the appropriate OS icon,
23. Download the [launcher](#) compatible for your [Operating System](#)
24. Right click to extract (unzip) the downloaded file

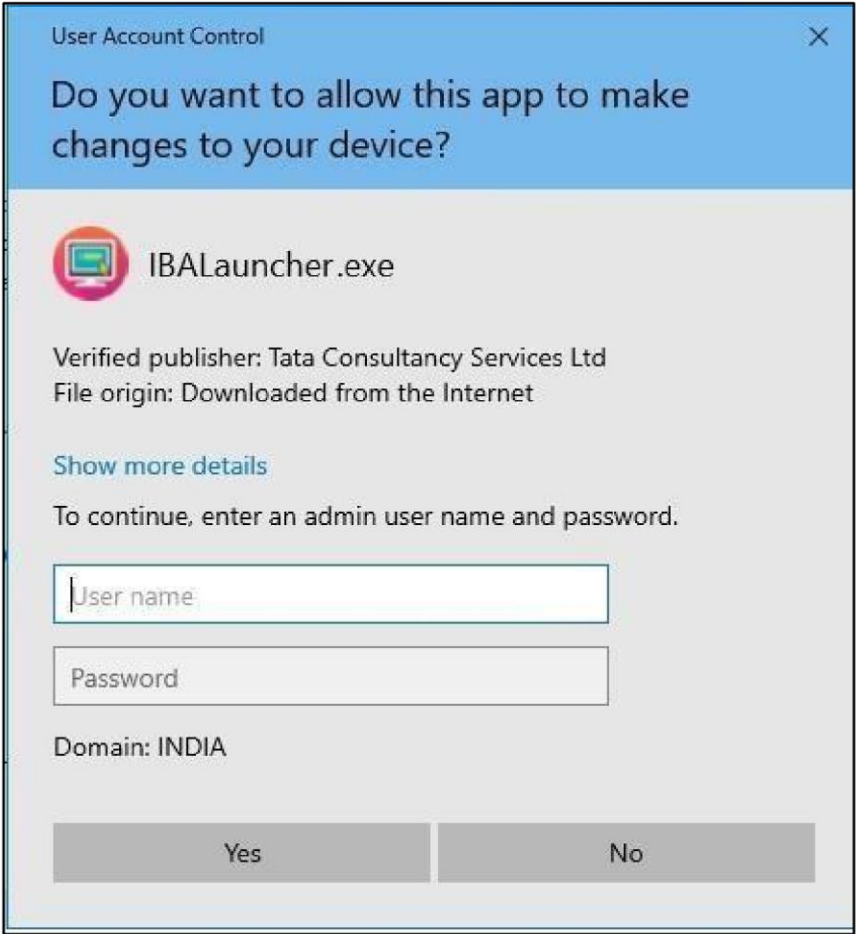


25. Right click the launcher exe file
26. Click on "Run as Administrator". (Refer ["How do I know if I have administrator rights?" section for steps to identify](#))

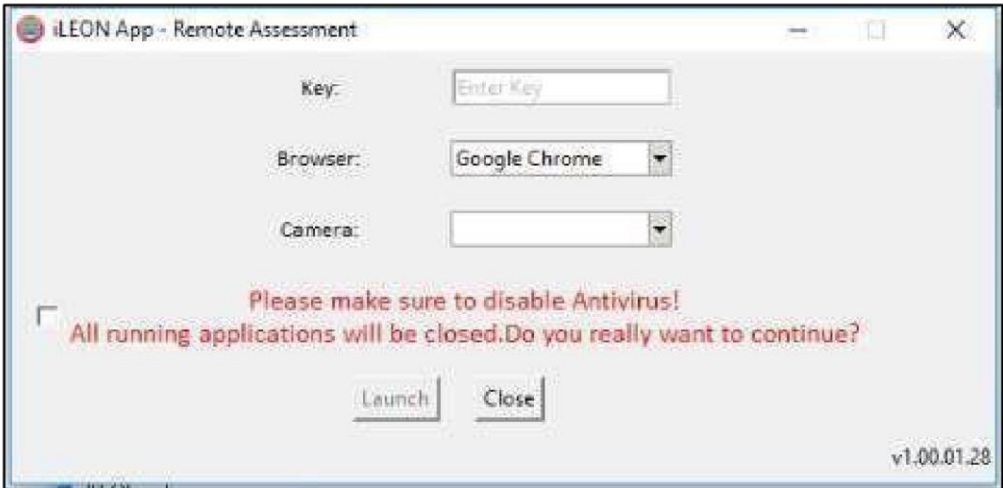
Please note this is an important and mandatory step to be executed As-Is.



27. Enter the login credentials of your system and click “Yes”. Note:
Some systems prompt to enter the login credentials and in some systems it doesn't. It depends on the Operating System. In the scenario, enter the windows or Ubuntu credentials of your system.



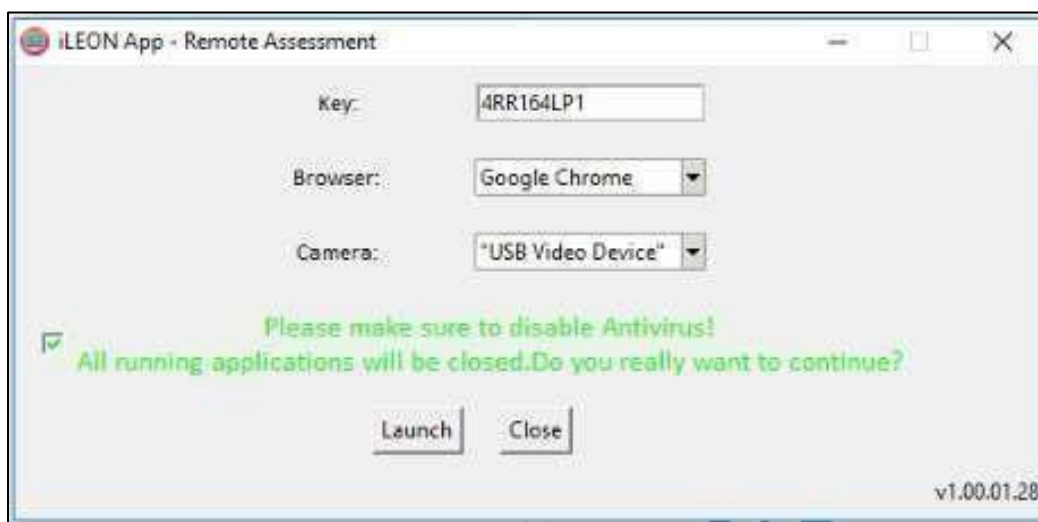
28. The IBA Launcher window appears.



- 29. Enter the unique key (token) generated,
- 30. Select the browser - Use Google Chrome only

31. Select the camera
32. select the checkbox,
33. Click **Launch** to start the assessment. Please launch the launcher only at EXAM START TIME. You will not be able to launch the exam before the start time mentioned in your shift details. In case you did launch earlier, you will see a message your exam has not been started and it will not AUTO START from the launcher window at EXAM START TIME. You need to close the launcher and open the launcher ONLY at EXAM START TIME.

Note: This will close all other programs running on your Computer.



34. Read the **General Instructions** displayed on screen. Select "I have read and understood the instructions and agree to adhere to them" Disclaimer checkbox
35. Click **I am ready to begin**.
36. Read the **Group Instructions**
37. Click **Proceed** to start the assessment.

Examinee Dos and Don'ts for Remote Assessment:

Before Start of Exam

Things 'To Do'

1. Do, read through the instructions thoroughly
2. Do, check on the surroundings from where you will take the entire exam –
 - a. Comfortable seating position, with ideally a wall or showcase behind you
 - b. Adequate brightness in the room
 - c. Light source facing you and away from camera

3. Do, check you have all required writing material (approved by Exam body) available with you
4. Do check you have your laptop power charged and plugged in to power
5. Do, check system configuration to be minimum of –
 - a. Operating System: Windows 7,10 and Ubuntu LINUX (14.1 and 16) version
 - b. RAM: 4GB of RAM
 - c. Processor: Intel Core i3 (or equivalent) and above
 - d. HDD: 100 MB of free space
 - e. Internet speed: Minimum 5 Mbps
 - f. **Browser: Recommend using Google chrome (for best experience)**
6. Do, check you have the correct and valid Login ID and Password
7. Do, check proper working of
 - a. Internet connection
 - b. WebCam

In case of issues where the camera is not getting detected or not functioning correctly, please refer to the below instructions to resolve them.

- a. Ensure you have camera and the latest camera drivers installed on your system
 - b. Ensure to allow / grant permission in anti-virus software for browsers to connect to camera (Click on Antivirus, open privacy protection and disable webcam protection)
 - c. For issues pertaining to video streaming not functioning, right click on the video window then select the show controls. System will show the play button on video. Click on that play button. Now you should be able to see the live stream.
8. Do, disable Antivirus on the system to be used for test-taking
9. Do “allow” for permission for webcam from your browser settings (Refer detailed Examinee Instructions given in the above sections)
10. Do turn off any application notifications, background processes running on your system to be used for test-taking
11. Do, download and save the launcher on your system, at least 2 hours in advance of your Exam time.
12. Do, ensure all other Applications, folders and files are closed, before launching the Launcher.
13. Do, maintain decorum as you would, while appearing for any exam from a physical test center
14. Chat with our helpdesk agents using Live Chat available on the exam login page in case of any difficulty faced

Things 'Not to Do'

1. Do not change the computer / laptop already tested by you and made ready during IRC and DRC
2. Do not use your mobile phone (Android) for Completing the Self Registration or to take the test
3. Do not have anybody else present in the test-taking room apart from yourself (as Candidate taking exam) – non-compliance to this will lead to your disqualification
4. Do not share the internet bandwidth during course of the Exam
5. Do not move away from your computer WebCam range
6. Do not have a light source behind you or at an angle that will cast a shadow on your face
7. Do not have any paper, device, equipment with you that has NOT been explicitly approved by Examination body

During Exam

Things 'To Do'

1. Do, Accept the "Terms and Conditions" displayed on your Console
2. Do read and understand the Exam Instructions, Subject Specific Instructions
3. Do, focus on the activity to be performed on the screen to solve the question being displayed
4. Do, Keep track of exam timer
5. Do, look for any on screen messages and respond immediately as per the message received
6. Do be aware, that any suspicion of malpractice or attempted use of unfair means can lead to your disqualification

Things 'Not to Do'

1. Do not cover the webcam lens/switch of the webcam at any point from start of examination till your examination is submitted
2. Do not create any virtual setup by screen mirroring or casting your screen to share screen with anyone else.
3. Do not consume any breakfast/meal/snacks/beverage in course of Exam. If at all you need to drink water, have a water bottle near your computer and drink in front of the camera.
4. Do not cover or mask your face

5. Do not change the seating posture.
6. Do not talk to anybody while taking the exam
7. Do not have anybody present with you while taking the exam
8. Do not use your mobile phone or any other communication device during Exam
9. Do not look down from the camera even to do any rough work. If at all any rough work needs to be done, it should be clearly visible in the camera that you are doing some rough work only and not looking down for something else.
10. Use the calculator tool provided in the screen.
11. Do not take screenshots or video or photos of displayed questions
12. Do not share Question with anyone or on social media channels
13. Do not use or even attempt any unfair means
14. Do not try to use any other application other than Launcher on the system
15. Do not Hit 'X' on top right corner to close the Launcher window
16. Do not leave the computer/exit the examination ahead of allotted exam end time, even for water or rest room break
17. Do not move around your seated position such that it obstructs a clear frontal view of your full face

Post Exam

Things 'To Do'

1. Do a manual "SUBMIT" of responses to questions by pressing 'Submit' button once you have completed your paper
2. Do click on "Exit assessment" button on the console, to ensure successful submission of the assessment and to close the browser.
3. Do "Right Shift+Esc" to Exit the Browser, if it takes more than 5 min. for the system to close the browser on its own.
4. Do wait for the browser to close
5. Do Restart your computer to reverse all temporary system changes made for the exam

Things 'Not to Do'

1. Do Not try to re-take the Assessment unless specifically instructed to do so
2. Do not try to reach out to Helpdesk to know your score and result

Steps to Debug General System Issues while taking Remote Assessment:

Resolving Camera Issues in Chrome

1. Go to Settings
2. In the "Search settings" bar, type "Camera"
3. Click on Site Settings
4. Click on Camera
5. Under "Allow" click on <https://www.digialm.com>
6. Under "Usage" click on "Clear Data"
7. Click on "Clear" at Pop- Up
8. Under Permissions, click on "Reset Permissions"
9. Click on Reset at Pop-Up
10. Go to the Self Registration and Candidate Consent page and reload it 11. Click on "Allow to Use your camera"

In addition to the above troubleshooting steps, there might be other issues where the camera is not getting detected or not functioning correctly. Please refer to the below guidelines on different errors and the steps to resolve them.

Camera details not appearing in the camera dropdown.

System tried to detect installed camera on your device. Unfortunately, it could not find any camera. There are 2 reasons why this may happen –

- a) No camera installed on your device. If you are sure that you have camera installed on your device, request you to double check and install the camera.
- b) Camera stops functioning due to outdated / corrupt camera drivers. Every device is made up of different make and brand, you would need to find suitable camera drivers based on your device's make / brand and install it. Once you install / upgrade drivers, your device would be compatible for the exam.

Camera details appearing in the camera dropdown. Live video streaming is not coming.

Your browser is not able to connect to the selected camera. We have observed that some antivirus software installed on your device, blocks browsers to connect to camera. We recommend that you grant permission in antivirus software for browsers to connect to camera. Once this is done, you will be able to complete your registration process. This is very important step to ensure that your antivirus is not preventing camera access during exam.

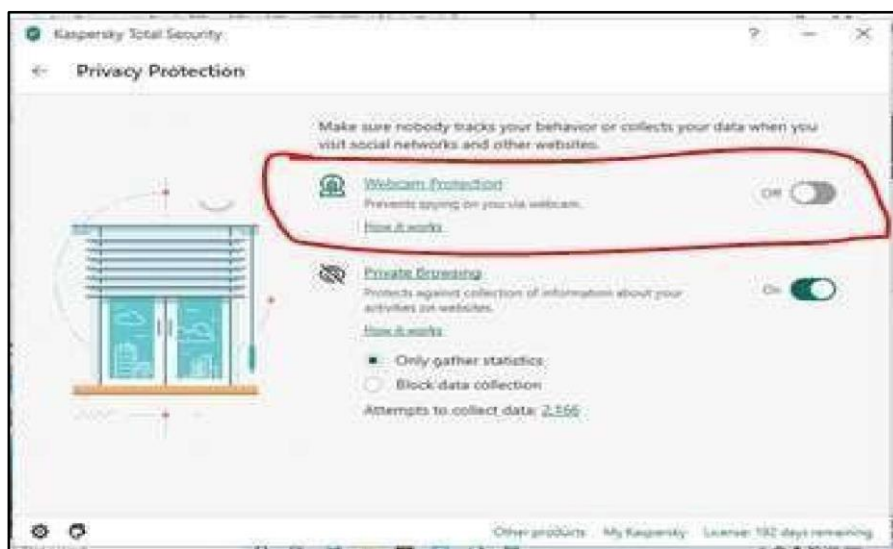
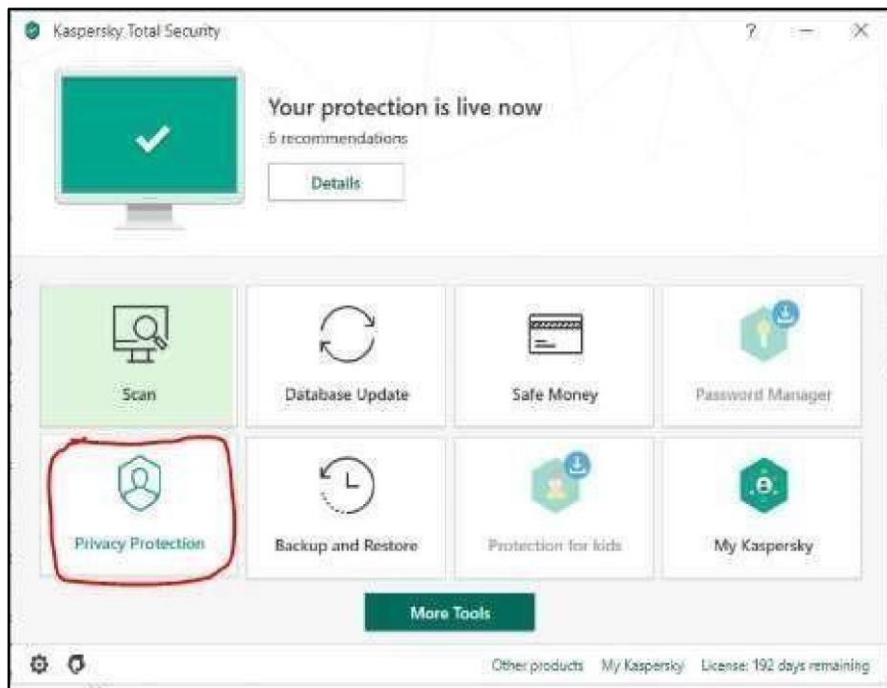
Please do not panic, we are sure you will be able to grant permission to the camera in your antivirus software, complete registration process and proceed for your examination.

Steps to disable web camera access in antivirus (Karspersky)

Step 1: Click on Antivirus.

Step 2: Open the Privacy Protection

Step 3: Disable the Webcam Protection



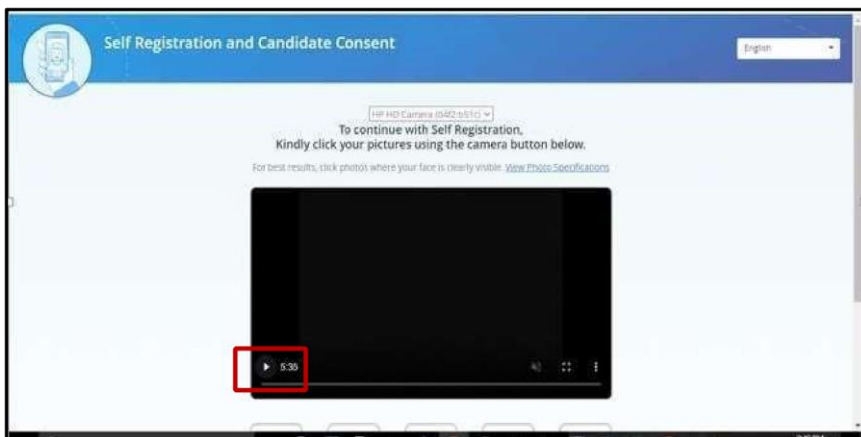
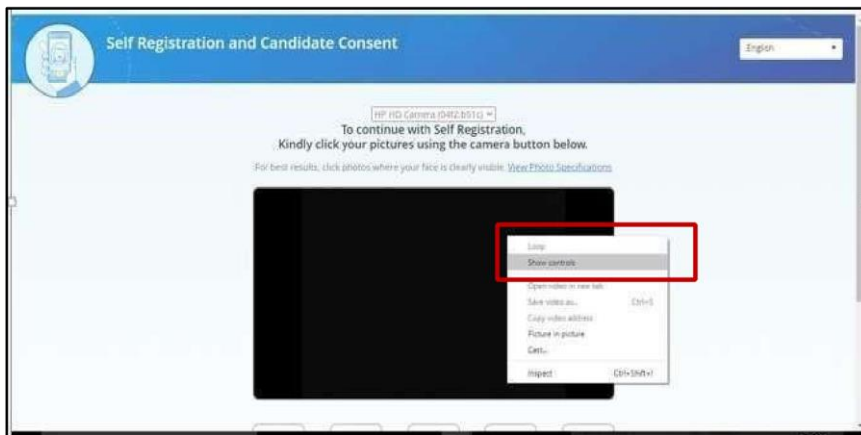
Browser not able to access HD Camera.

We have observed that, some browsers may not be able to access High Definition camera. If your browser is not able to connect to your camera, you can complete the registration process through your mobile device. To do this, please do the following:

1. Access the login page by pasting the exam link in your mobile device browser.
2. Login and follow the steps to complete your registration process.
3. Once you finish registration on your mobile device, you can re-login on your desktop/laptop and proceed with the next steps.

Camera details appearing. Live video streaming is not visible for a while.

Keep the mouse on black patch (video position) and right click then select the show controls. System will show the play button on video. Click on that play button. Now you should be able to see the live stream.



How do I know if I have Administrator Rights?

Windows Operating System

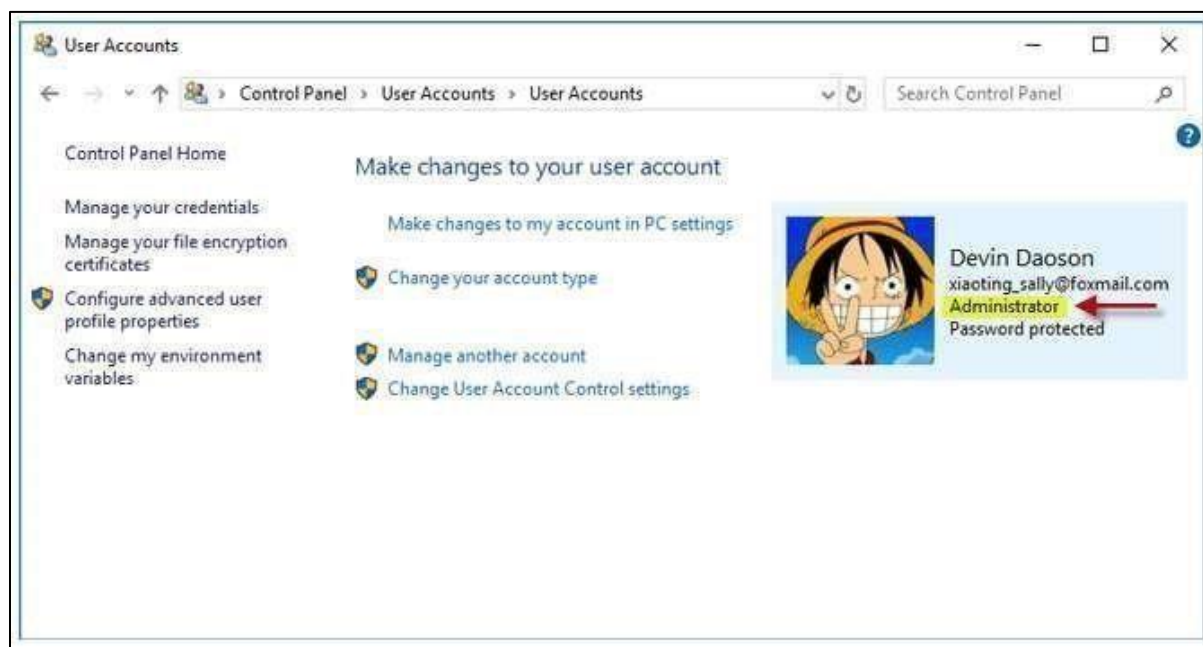
Depending on the version of Windows on your computer, the steps to determine if user account has administrator rights can differ.

Follow the steps below for the version of Windows on your computer.

Windows 7 and 10

The easiest way to check if your user account has admin rights on the computer is by accessing the User Accounts in Windows.

1. Access the Control Panel.
2. Click on the User Accounts option.
3. In User Accounts, you should see your account name listed on the right side. If your account has admin rights, it will say "Administrator" under your account name.



The other way to check for administrator rights is through settings (**applicable for Windows 10**)

1. Open Settings using Win + I key, and then go to Accounts > Your info.

2. Now you can see your current signed-in user account. If you are using an administrator account, you can see an "Administrator" word under your user name.

29
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~~Ubuntu / Linux Operating System~~

In the default GUI, open the System Settings and go to the "User Accounts" tool. This shows your "Account Type": "Standard" or "Administrator"

On the command line, run the command **id** or **groups** and see whether you are in the **sudo** group. On Ubuntu, normally, administrators are in the **sudo** group

How do I assign administrator rights to my login?

Windows Operating System

34

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Depending on the version of Windows on your computer, the steps to assign admin rights to your login can differ.

Follow the steps below for the version of Windows on your computer.

Windows 7

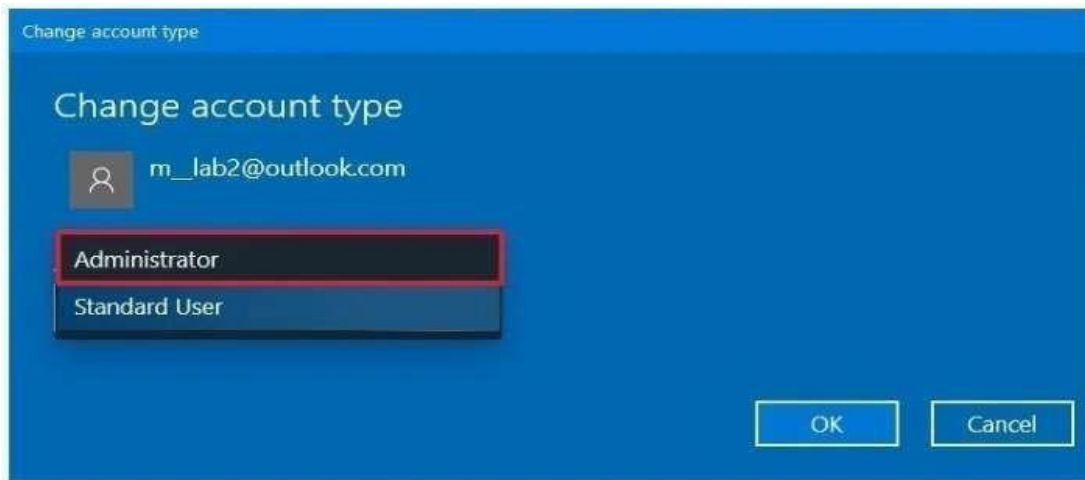
1. Click "Start | Control Panel | User Accounts and Family Safety | User Accounts."
2. Click "Manage another Account" and then click "Create a New Account." Create a username for the account and select "Administrator."
3. Click "Create Account." Choose the new account from the list of users and then click "Create a Password."
4. Enter a new password for the administrator and create a password hint. Click "Create Password" to finish setting up the administrator account.

Windows 10

1. Open Settings.
2. Click on Accounts.
3. Click on Family & other users.
4. Under the "Your family" or "Other users" section, select the user account.
5. Click the Change account type button.



6. Select the Administrator or Standard User account type



7. Click the OK button

Once you complete the steps, restart your computer to start using the account with the new privilege level.

Ubuntu / Linux

Steps for becoming Super User on Ubuntu / Linux

1. Open a terminal Window. Press Ctrl+Alt+T to open the terminal on Ubuntu
2. To become root user type:
`sudo -i` OR `sudo -s`
3. When promoted provide your password
4. After successful login, the \$ prompt would change to # to indicate that you logged in as root user on Ubuntu

Logging in as root on Ubuntu

1. Open the Terminal application. Use the whoami command to verify user identity:
`$ whoami`
2. To login as root on Ubuntu, type the following sudo command:
`$ sudo -i`
3. Next type your password and your shell prompt should change from \$ to #:
4. To exit from sudo session of root user, type any one of the following exit command or logout command:
`# logout`

OR

exit

Installing Windows 10 OS alongside Mac OS system

This section covers how to install windows 10 OS alongside Mac OS system. It also covers the windows OS removal procedure in case candidate don't want to use windows OS after assessment.

Prerequisite

1. Windows ISO
2. Pen drive with at least 8GB storage.

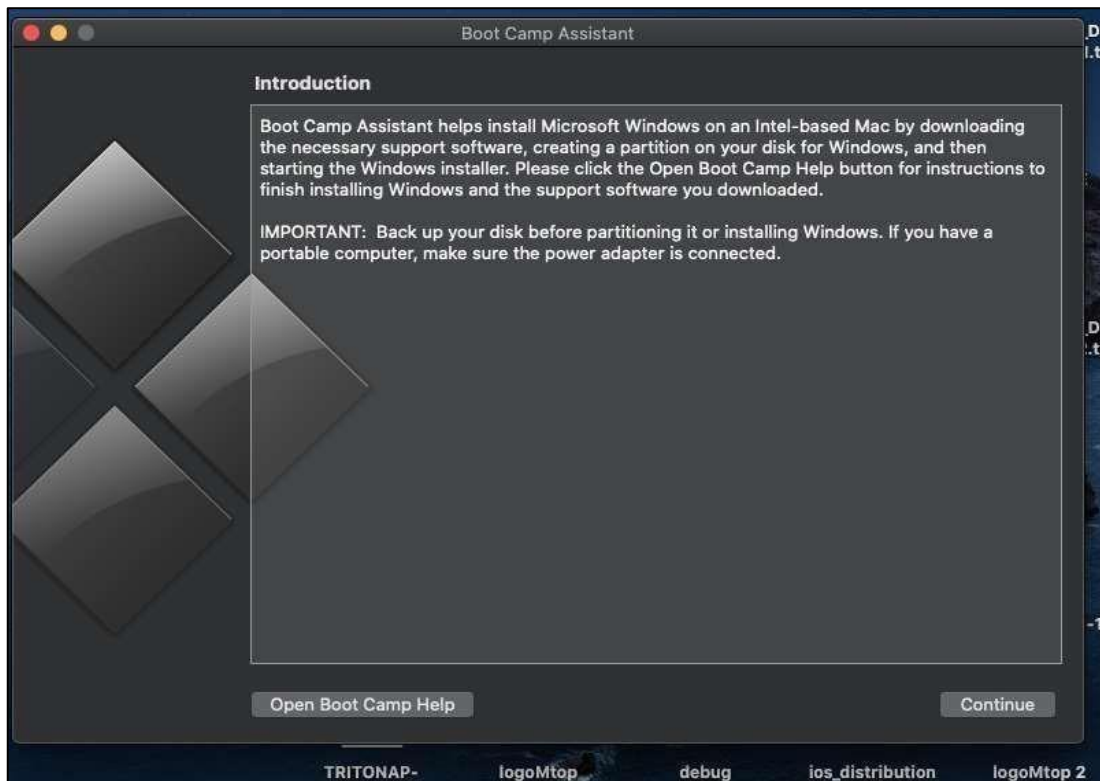
Installation Procedure

In every Mac OS there is inbuilt application available for installing any third party OS. The name of this application is boot camp assistant. Though there can be other twisted method for installation but installation through boot camp assistant is recommended from Mac.

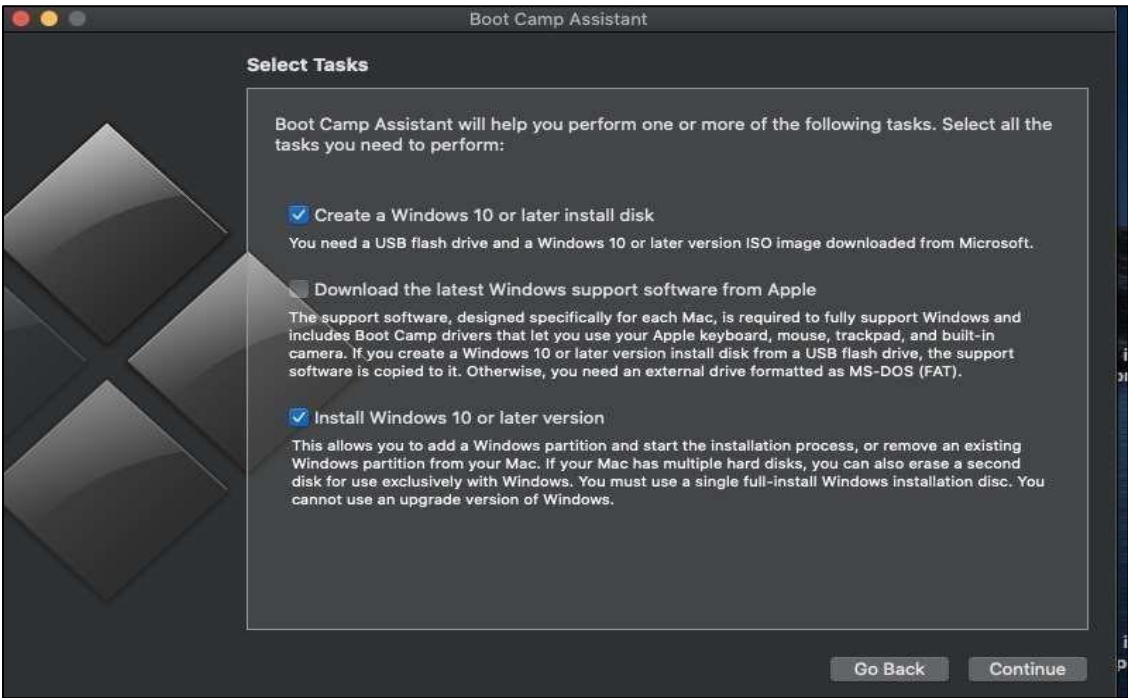
Follow the steps as shown below

Step 1:

Open boot camp assistant either through siri or through Finder app. The screen will look like this. It may vary little bit based on version. Click on continue.

**Step 2:**

After continuing you will get the below screen. You can select just first and third option as seen in the screenshot and continue the second option can be kept unchecked as there is no need to download windows support software since it takes more time and space which is limited in pen drive. You can upgrade later on, once the installation is complete.



Step 3:

During all the process you have to make sure pen drive is connected. After you click on continue in the second step, it will ask you to choose the ISO file location. Then you can click on continue.



Step 4:

It will ask the user to select the storage details for windows. NO need to change the default setting. By default, it will take the 40GB space to install windows OS. Let it be like this and install.



Once you click on install system will ask few details like username, language setting and all which we get during normal Windows installation. Once the installation is complete it will by default boot to windows system. To get the boot option to be in windows or Mac you can press option key on Mac and hold it till you got the option to select the OS to boot in.

Uninstall Procedure

The uninstalling procedure is very much similar and easy to perform. First you need to boot to Mac OS. You can do it by pressing and holding option key, it will give you option in which OS to boot. The next step by step procedure is as follows.



Step 1:

Open Boot Camp assistant and click Continue

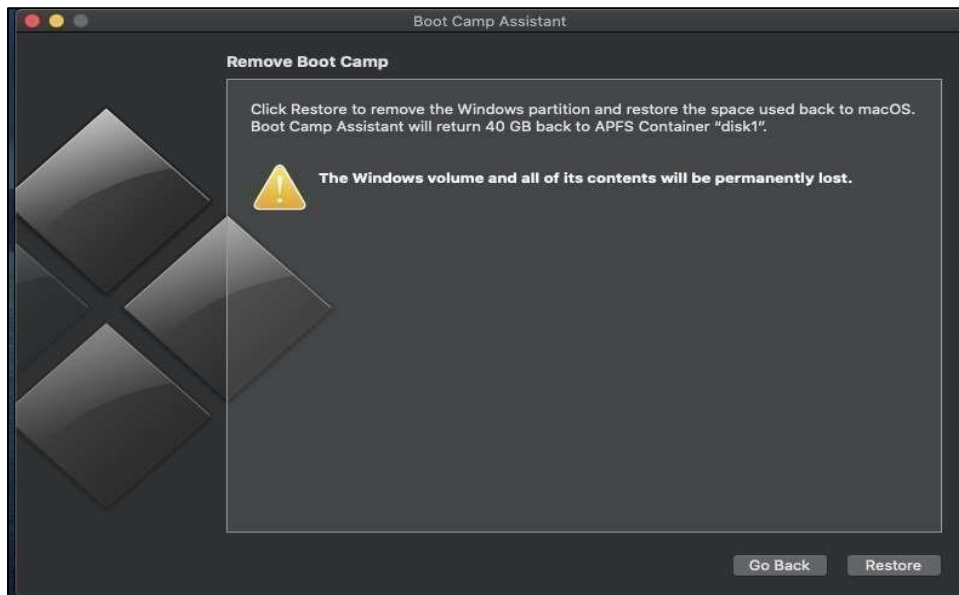
Step 2:

After clicking on continue, it will ask you to remove the windows OS. You need to check that option as shown below.



Step 3:

Once you press continue in step 2, it will give the below popup to remove the Windows OS by clicking on restore button.



Relax and start your exam.

Good Luck!

About Tata Consultancy Services (TCS)

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