

Wireless Testing Interview Questions And Answers Guide.



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Wireless Testing Job Interview Preparation Guide.

Question # 1

Tell me how are the difficulties involved with testing of Mobile and Cellular Handsets overcome by testers?

Answer:-

The most common and important difficulties that should be overcome by testers is testing on multiple types of handsets and automation testing. How can you overcome them?

As a tester you need to make yourself more aware of the automation services/tools to run tests on mobile handsets.

A smart mobile simulation program is hooked on to the actual (physical) handset at 'device anywhere' site. Companies pay per use or a monthly fee. The UI is like that of a mobile simulator, but the tests run on a phone.

The beauty lies in the variety of mobile phones they offer. I'm no way connected to device anywhere company but I'm a customer who is benefiting from their service. Awesome part is: automation testing on physical devices, how nice does it get?

Knowledge of popular handset used by public will also be of immense help to test mobile applications

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Question # 2

Explain the difference between WEP and TKIP?

Answer:-

WEP: Wired Equivalent Privacy

TKIP: Temporal Key Integrity Protocol

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Question # 3

Tell me what are the test procedures for performing Wireless Testing?

Answer:-

Please share your knowledge and deliver your answer.

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Question # 4

Tell me how to get Voice over wireless testing?

Answer:-

There are testlabs to test the voice over wireless testing. Otherwise you can use two of ur test mobiles and can put any operators simcard just like ur own mobile and can test it. Most of the companies provide some operators simcards to test.

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Question # 5

Tell me what is Wireless Test Executive?

Answer:-

Wireless test executive is an easy-to-use graphic interface for controlling test selection, execution, and runtime options. Tests are displayed in a hierarchical list where each entry represents one test. Test Objects are a key component of the Test Executive Architecture. The Test Objects operate with the Test Executive through a standard interface that is provided by the Test Executive DLL.

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Question # 6

Tell me how can we utilize RACAL in Mobile Testing?

Answer:-

RACAL is Base station emulator, using this we can test all mobile use cases in the controlled environment.

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Question # 7

Explain what are the special features of wireless test tools?

Answer:-

Please share your knowledge and deliver your answer.

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Question # 8

Explain what are the challenges in Wireless Testing?

Answer:-

Please share your knowledge and deliver your answer.

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Question # 9

Tell me how to do tracing in wireless testing?

Answer:-

Please share your knowledge and deliver your answer.

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Question # 10

Is there any automation tool for mobile(wireless) application testing?

Answer:-

TestQuest and MTS are two mobile automation tools.

TestQuest is used to test wireless handsets.

MTS is a scalable automated application testing tool for Windows Mobile 5.0.

There are also ways to produce automated tests on various mobile browsers with wireless handset simulation tools such as OpenWave.

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Question # 11

Tell me how is test environment prepared for wireless testing?

Answer:-

There are wireless simulators to which you connect ur mobile and test. Simulator acts like wireless tower in real network

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Question # 12

Find out what to test? is the application in stand alone or client server?

Answer:-

If application is client server - you need wifi (if Device support) and GPRS (device should be enabled and GPRS Access Points should be configured according to requirement).

For CDMA there is no need to set access point. And devices should be according to service operators.

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Question # 13

Explain how is quality of wireless testing measured?

Answer:-

The quality of a wireless signal is measured with respect to thresholds of:

- BER (Bit Error Rate) which should be $< 10^{-6}$ or BLER (Block Error Rate)
- RSSI (Received Signal Strength Indicator)
- SWR (Standing Wave Ratio)
- SNR (Signal-to-Noise Ratio) which is P/N
- SINR (Signal to Interference and Noise Ratio) or P/(N+I)
- SINADR (Signal-to-Interference plus Noise And Distortion Ratio).. and many more.

These parameters are evaluated based on the technology or standard in use. For example, in WiFi or 802.11, the RSSI is used as the link quality parameter to be used. However, all of the above contribute in one way or the other to the quality of the wireless link as noise, interference, environmental characteristics, power, frequency used... contribute to the loss or gain in the link's quality.

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Question # 14

Tell me what are the different levels in Wireless Testing?

Answer:-

Levels of testing:

1. Usability Testing
2. Network Performance Testing
3. Server-Side Testing
4. Automating Unit Testing



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Question # 15

How should the analysis be performed by a tester before carrying out Wireless Testing?

Answer:-

Please share your knowledge and deliver your answer.

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Question # 16

Explain what are the activities of testing involved in Wireless Testing?

Answer:-

Please share your knowledge and deliver your answer.

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Question # 17

Tell me what areas of applications can be covered under wireless testing?

Answer:-

Basically Call module should be covered for wireless testing, after that all the applications should be tested how those applications behave when a call is received being in that application.

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Question # 18

Explain what is wireless testing? how do we do it? What are the concepts a test engineer should have knowledge of? How do u classify testing of wireless products?

Answer:-

Wireless testing you can classify into 3 types:

- 1) Platform testing: To do this testing, tester should have programming knowledge of cpp, java
- 2) Protocol testing: To do this, tester should have a knowledge of Networking concepts like, making lan connections, read protocol logs in wireshark, ethereal (both are protocol logging tools), all protocol definitions TCP/IP, UDP.. etc etc
- 3) Application testing: Testing mobile application is almost testing windows applications but bit different. Some basic networking concepts are must. If the application is to be testing in JUnit, then Java knowledge is a must.

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Question # 19

Build Installation medium?

Answer:-

Wireless (OTA/WiFi/BT) wired: using Data Cable, PC Suit.

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Question # 20

Can you explain what is the term load in wireless testing?

Answer:-

Its giving enough load to the process. Suppose a user using the wireless interface for communication, which it is many-many communicator.

1. Check the interface behaves once another communicator is in request(make a call to a interface, which is busy in communicating with another interface).
2. Check the Wireless interface performance on invoking the another application(Reminder, Alarm invoked on call, Message received, low battery ect..)

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Question # 21

Explain what are the wireless test capabilities for mobile testing?

Answer:-

Please share your knowledge and deliver your answer.

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Question # 22

Tell me what are the prerequisites to become a mobile tester?

Answer:-

Mobile Tester Should know about the

1. Mobile Technology
2. Development Technology
3. Mobile Platform(OS)
4. Knowledge on Device Supporting Tools.
5. Mobile Protocols

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Question # 23

Explain how must the testers update themselves and what all must be learn by testers to perform wireless testing?

Answer:-

- 1.Should know the Functional units for new technology.
- 2.Tester should know the latest Mobile technology knowledge.
- 3.Should know about the Test Environment.
- 4.Should able to configure and troubleshoot the device.
- 5.Should able to follow the standards and verify the checklist.
- 6.Should be innovative thinking and make Test scenario for the running the application.
- 7.Should able to Test the full part of coverage.

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Question # 24

How to test mobile handsets?

Answer:-

SOME MOBILE PHONE TEST CASES

This is not an exhaustive list. As you see mobile phone testing is a rigorous process that can easily require numerous test cases.

START UP

- 1) Can fully charge battery
- 2) Inserting SIM is intuitive and fool-proof
- 3) Inserting battery is intuitive and fool-proof
- 4) Can power on the mobile phone
- 5) Power-on splash screen meets requirements (ex: format branding)
- 6) Set-up page asks if you want to set time and date
 - a) returning 'yes' allows you to complete set-up
 - b) returning 'no' skips set-up
- 7) Completing or skipping set-up goes to main page

MAIN PAGE

- 1) Text graphics format color scheme and branding meet requirements
- 2) Time and date are properly displayed on screen
- 3) Signal strength is properly displayed on screen
- 4) Battery level is properly displayed on screen
- 5) Left soft button text reads 'Call'
- 6) Right soft button text reads 'Menu'
- 7) Pressing left soft button displays Call Log
- 8) Pressing right soft button displays Applications Menus
- 9) Pressing left return button does nothing
- 10) Pressing right clear button does nothing

PLACING A CALL

- 1) Pressing a number key opens foreground window
- 2) Foreground window has proper dimensions and graphics
- 3) Selected number is displayed along bottom left of window
- 4) The text related to soft key changes from 'Calls' to 'Call'
- 5) Pressing additional numbers adds corresponding numbers from left to right
- 6) Pressing clear button deletes right-most number
- 7) Can clear entire entry
- 8) With numbers populated in the foreground window pressing back button returns to main page
- 9) Enter a valid local phone number and place call
- 10) Enter a valid long distance number and place call
- 11) Place call when phone has weak signal (1 bar)
- 12) Attempt to place a call with no signal
- 13) Place call with low battery
- 14) Place call when battery runs out

OTHER TEST CASES TO CONSIDER

- 1) Receiving calls
 - a) during another call
 - b) during an IM session
 - c) while authoring an SMS
 - d) while reading and e-mail
 - e) while playing a game
 - f) while listening to a song
 - e) while taking a picture
- 2) Sending and receiving short messages (SMS) with and without attachments
- 3) Mobile e-mail
- 4) Mobile Instant Messaging
- 5) Mobile internet
- 6) Bluetooth interface
- 7) Camera
- 8) Themes
- 9) Ringtones
- 10) Battery life
- 11) Signal strength
- 12) No-signal conditions

Test cases can get quite complex. For example consider the steps required to verify that a Mobile IM session re-establishes itself after receiving no signal and going back to a good signal area. And we've just scratched the surface! It would likely take an entire day to produce all of the test cases needed to fully test a cell phone!

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Question # 25

Do you know how is Wireless network adapters tested?

Answer:-

1. Check that the Wireless Network Adapter is on and verified by LED glow.
2. Check that the Wireless Network Adapter is suited for the different OS.
3. Check the Wireless Network Adapter is able to pass Installation Testing.
4. Check that the Wireless Network Adapter is able to configure.
5. Check the data flows(in/out) functions for the Wireless Network Adapter.
6. Check the flow rate of data and should not breakup.
7. Check the Time delay taken for every process.
8. Data Transmission should not be freeze at any situation.

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Question # 26

Tell me what are the recent advancements in wireless testing?

Answer:-

Please share your knowledge and deliver your answer.

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Question # 27

Explain difference between 2g and 3G in mobile phone testing?

Answer:-

2G and 3G is a family of standards for mobile telecommunications defined by the International Telecommunication Union, which includes GSM EDGE, UMTS, and CDMA2000 as well as DECT and WiMAX. Services include wide-area wireless voice telephone, video calls, and wireless data, all in a mobile environment. 2G Stands for second generation mobile telephony standards, where 3G defined the third generation mobile telephony standards to facilitate growth, increase bandwidth, and support more diverse applications. For example, GSM (the current most popular cellular phone standard) could deliver not only voice, but also circuit-switched data at download rates up to 14.4 kbps. But to support mobile multimedia applications, 3G had to deliver packet-switched data with better spectral efficiency, at far greater bandwidths.

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Question # 28

How to test protocols in Mobile testing. and how many protocols are used in Mobile application?

Answer:-

I just came across this url and could not help myself to comment on this. Your question looks little vague. I mean, are you talking about network level protocols or application level protocols. Or is it related to OBEX protocol implementation in Mobile Apps. Actually the same TCP/IP concepts go in mobile apps also, but when it comes down to browsing apps/downloading apps, it is generally done via WAP gateway (Not WAP Server which generally people confuse with). WAP is a standard defined to serve as a common platform as we cannot directly hook on from normal TCP/IP network to a mobile network. But it is definitely possible to call, SMS, sending mail from any browser to a mobile device, and vice versa. So how does this happen? Also are you talking about what happens at the server end, after the gateway or before that. Also, which carrier network are you referring to GSM/CDMA. If I have sensed right it is "OBEX" you are referring to.

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Question # 29

Explain what technologies are used with Wireless Testing?

Answer:-

The technology used will determine the type of test environment and tools that we need.

- * WAP
- * Bluetooth, etc.
- * XML, WML
- * Security protocols

Tools

- * WAP Simulators by hardware vendor: Nokia, Ericsson, Motorola
- * Capture/Playback - such as TestPartner by Compuware
- * Performance Testing - such as QA Load Compuware

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Question # 30

Tell me the difference between TLS and TTLS?

Answer:-

TLS: Transport Layer Security
TTLS: Tunneled Transport Layer Security

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Question # 31

Tell me how we test battery back up time using load testing? specially for mobile testing?

Answer:-

procedure of battery testing
battery backup test for idle mode



1. fully charge the battery
 2. make sure no calls should be made on DuT
 3. start timer when fully charged
 4. wait until the battery drain out fully
- battery backup test for dedicated mode
- 1 again fully charge the battery
 - 2 make a call to a test phone from DuT
 3. start timer when call is connected
 4. wait until the battery is fully drain out
 5. match all the readings from user manual and check the battery leakage

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Question # 32

Explain how are the security aspects taken care while performing wireless testing in a wireless network?

Answer:-

I think we must consider the following aspect:

1. Unauthorised access/Guest access
2. Firewalls
3. Concurrent connections

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Question # 33

Do you know when and Why does WPA/WPA2 came into picture?

Answer:-

Please share your knowledge and deliver your answer.

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Question # 34

Builds for devices?

Answer:-

sort out builds on basis of

- make (Brand) due to their specific key functionalities.
- resolutions 128x128, 240x320, 176x220 (208), 320x240 or higher resolution.

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Question # 35

Explain requirement of simulators?

Answer:-

Best way to test network apps to test connectivity.

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