Throughout this "test", presume you have full access to the servers in question and it's running LAMP. You also have daily backup from January 1st 1970 And all code is versioned with "git". All sites have time­based jobs scheduled.

1. “Recently the web site is responding slowly. Describe how you would start your search for the reason of this.”

First I will look for the server (its characteristics, etc.)

Check memory (For a reason of daily backup since January 1, 1970).

To get started work with web site i need to know :

1. Is it cloud (if yes what cloud)
2. What OS is used?
3. Is gzip compression enabled?
4. Dynamic or static Site
5. Are you using Caching

And when I find these characteristics I can pick up some tests for the site

(About traceroute, WebPageTest, YSlow, WebPageTest, etc.)

1. “You are hosting a blog that has become quite popular. The increased pressure on your LAMP is reaching a breaking point (slow and sometimes lost connections). What options can you think of that might help deliver a better visitor experience?”

As a rule, with the growing popularity of the site you need to upgrade the server.

Then we need to optimize the site (compress images, cache images, etc.)

1. “What option in "2)" would you have chosen and why??”  
   I chose upgrade server because the number of users is growing. Plus it will improve the performance of the site
2. “You realize that your site has been compromised (you've been hacked). Your site has become an ad campaign for pharmaceutical products. How would you go about finding the source of the hack?”

* Start by checking access logs
* Search site folders/directories for suspicious files.
* Search site files for suspicious content with grep/findstr.
* find uploads (bash)
* Check the git

1. “When you have found the hack in "4)" you also found that the site has been compromised since July 25th 2014. How would you proceed?”

Of course you need to do a backup for July 24th 2014. But it all depends on the date which is now, that is, if we are talking about 2017 then you need to check all downloads, and so on.( Do not lose data that has been made for a long time)

1. “You are about to migrate a website from one cloud server to another. No downtime at all is preferred. Site is running on http://example.com/ with redirect from http://www.example.com/ setup. No user login on the website except for the administration interface which is down for maintenance (allowed by customer). Describe how you would do this migration.”

1: Preparation – In which the required information is gathered from the source server and the destination server is prepared to host the site.

2: File/Database Migration – In which the files are copied from the source server to the destination server.

3: Deployment – In which the migrated files are configured and placed in their live position on the destination server.