1. What would be the ideal process at the beginning of one sprint to determine what to test for a story?

Ideal process is, ensure that the story is testable and has valid acceptance criteria, perform technology facing tests and business facing tests.

2. What needs to be tested on the Backend and how would you test it?

Backend testing is defined as a type of testing that checks the server side API or Database, test module is working independently, test the module after integration integration and testing the overall performance.

To test API I would use Swagger or Postmane to validate the API and to automate the API I will use RestAssured, for database testing, I will use Data Factory for database testing, for unit and integration testing it needs to tie up with the developer and test the module, and for performance testing I will perform load or stress testing by using tools like JMeter.

3. What are the pros and cons of having android and iOS automation in the same project?

Pros:

1. Test cases are more visible and high level, especially if you are using BDD correctly.
2. Would be much easier to hook up CI system, test runs from a single repo
3. Management would be able to see test results and coverage in the same report

Cons:

1. Both platforms are not really uniform, no matter how similar your app looks they are based on two different code bases and operate on different OSes. Back button handling, settings navigation, touched etc eg: Notifications and alerts are handled pretty differently on both platforms
2. UI tree in iOS includes all the laid out elements, even if they are not in view (needs scroll), on Android UI tree contains only visible elements, so one has scroll mechanically and then find elements.
3. Even if we have proper interfaces and architecture, avoiding conditional logic is difficult making the code less maintainable.
4. Things get pretty complicated once we introduce tablets, landscape and portrait modes. eg; text entry in android landscape mode is quite different

4. What is your strategy to make your automated tests run faster and avoid data conflict?

To make the automated tests run faster I will make the automated testing run parallelly and to avoid data conflict, I will make each test case independent.

5. What would be your approach to automate an app that supports different languages?

To automate an app that support different language I will run the automation in the grid environment. In the grid environment, I would initiate different instances of different languages(by passing a parameter which will specify the language) to execute the same tests in different languages.

6. How do you define the severity of a bug and how would you report them to developers?

Severity is defined as the degree of impact a Defect has on the development or operation of a component application being tested. Most of the time it is defined in the team meeting that which bug should be considered as severe.

I will consider a bug as severe if the feature is used by the user frequently and the bug is blocking the user to use the feature. Severe bugs should be reported to the developers by

marking ‘Critical“ flag. It is good practice to show the steps of critical bug to developer instantly to resolve the issue faster.

7. As a QA Engineer, how do you support developers in writing automated tests?
To support developers in writing automated tests, I will perform the following things:

1. User story will be clearly stated and provide some test cases from the story.
2. Provide idea about where defects could be found and focus on that area
3. Discuss what kind of testing should be performed
4. Provide test oracles
5. Provide ideas about negative cases
6. Advising the developer on what scripted test the tester plans to run does not prevent the tester from introducing the additional exploratory tests.
7. Provide idea about effective coverage
8. And finally motivate the developers to cover more cases

8. Consider that an app is missing automated tests - how would you determine what part of the app requires automation first and how would you report the automation Progress?
I will identify the mostly used features by users and the area where the effect of code change is severe and number of bugs is rising, where manual testing takes too much time and error prone.
I will report what is automated so far and how long it took and the technical and functional coverage. I will also state the time to complete testing and automation process.

9. If an app is presenting performance issues, resulting in high response time in some situations, how can you help the team handle this matter?
I will identify the module which is causing the performance issue. If the issue is caused by the app, I will send the issue to the developer to resolve. Otherwise, if the issue is caused by the environment, I will suggest to add more resources which will increase the performance.

10. How do you see your role during the backlog grooming and planning phases?
Backlog grooming is the first opportunity for QA to prevent defects from being introduced into the code in the first place. Here I can ask technical questions of developers before they start implementing, assess the requirements and the information provided. It also allows me a chance to gather information required for testing, which allows me to provide more reliable estimates.
Planning phase is the last opportunity as a tester to ensure that they have all the information needed before work is started. Following questions I will cross check during the planning phase:

- Do I understand the requirements?
- Does everyone else understand the requirements? (and does their understanding match mine?)
- What requirements have not been written down?
- Are there any external factors such as legal requirements or third parties?
- How can I test this work? Is it even testable?
- Do I need any additional tools to test this work?
- Do I have any dependencies in order to test this work, such as needing live data or having to work directly with a customer or third party?
- Does this work conflict with anything else in this sprint?
- Does this work conflict with work being done by other teams?

- Are there any repetitive checks that I could automate for this work?
- Do I need to consider other forms of testing such as security or performance testing?
- Is the balance of development workload to testing workload viable?

11. Suppose a user is not able to log into the app. How would you debug this issue from a QA point of view?
First of all, I will check the log file for the error. If there is no log, I will definitely tell the developer to create the log to trace the reason.

12. What is the ideal release process for mobile apps?
For mobile app, ideal release process is provide nightly build. If it is not possible then go for weekly or monthly release.