**Question 1:**

I suggest choosing Agile methodology, because:

**- REQUIREMENTS CHARATERISTICS:**

+ **Reliability**: The requirement is initially well-defined; this project is possible to run. The requirements are high reliable.

+ **Type of requirements**: The requirements have both functional requirements and non-functional requirements.

Functional requirements:

* Attendance tracking
* Calendar view
* Automatic calculations
* Reminders and notifications

Non-Functional requirements:

* Easy to know how attendance, clock-in, clock-out and break time
* Will reminders and notifications upcoming time off request, shifts, and other important events

**- DEVELOPMENT TEAM:**

+ **Team size**: 6 developers and 2 QA. The organization supplies requirements and additional resources at the beginning of the project and not long-term supports.

**- USER INVOLVEMENT IN THE PROJECT:**

+ Small because the requirement is defined very well and the context, they don’t mention about the user join in project to test the system or check the IT team building this application to fit their requirements.

=> Conclusion: Agile methodology is the best choice in this project (especially Scrum) to build the application, all phases of project will be iterative after each sprint.

**Question 2:**

Four functional requirements:

* Attendance tracking
* Calendar view
* Automatic calculations
* Reminders and notifications

Two non-functional requirements:

* Easy to know how attendance, clock-in, clock-out and break time
* Will reminders and notifications upcoming time off request, shifts, and other important events

**Question 3:**

As an employee, I want to view calendar of working, so that I can calculate my salary.

As an employee, I want to know time of requests, so that I can calculate time to off for future.

**Question 4:**

**The manager screens**

Manager function

Employee function

Attendance

Check In, Check Out

Create the time table for employee

Management the time off, task of employee

Sort the performance activities employee low or high

Register the time table for the employee

Show the information, attendance, task of the employee

Show all the employee

Use touch ID, Face ID to check log

**Question 6:**

In this case, I suggest using black-box testing, since:

* Easy to use, requires no programing knowledge and is effective in detecting functional issues.
* Used to test whether the application meets all the functional and non-functional requirements of the customer or not as well as to check if the user experience related issues such as user-friendly interface, performance, good function, ...