Question 1:
Explain the following Agile Methodologies Scrum, Kanban, Extreme Programming?

Answer:
SCRUM: This is a framework which people can address complex adaptive problems, while productively and creatively delivering products to the highest possible value. In Scrum, the Product Owner works closely with their team to identify and prioritize system functionality by creating a Product Backlog. The Product Backlog consists of whatever needs to be done to successfully deliver a working software system, including features, bug fixes, non-functional requirements, etc. Once priorities have been established, cross-functional teams will estimate and sign-up to deliver "potentially shippable increments" of software during successive Sprints, typically lasting 30 days. Once a Sprint's Product Backlog is committed, no additional functionality can be added to the Sprint except by the team. Once a Sprint has been delivered, the Product Backlog is analyzed and reprioritized, if necessary, and the next set of deliverables is selected for the next Sprint.

KANBAN: This is a visual system for managing work as it moves through a process. Kanban visualizes both the process (the workflow) and the actual work passing through that process. The goal of Kanban is to identify potential bottlenecks in your process and fix them so work can flow through it cost-effectively at an optimal speed or throughput.

EXTREME PROGRAMMING: XP is a disciplined approach for high-quality agile software development, focused on speed and continuous delivery. It is intended to improve software quality and responsiveness in the face of changing customer requirements. It promotes high customer involvement, rapid feedback loops, continuous testing, continuous planning, and close teamwork to deliver working software at very frequent intervals, typically every 1-3 weeks.

Question 2:
Who are the members of an Agile team and what are their roles?

Answer:

Agile Team Members	Roles
Product Owner	Person with the product idea
Project Manager	Brings the products owner idea to life and delegates to the scrum master
Scrum Master	Coordinates, motivates and is accountable for the work done by the development team

Designers	They handle the design of the UI
Software Engineers	They work on the front and back end development
Quality Assurance	Ensure the software corresponds to specification
Testers	System inspection and bug finding
UED	They handle the user experience of the front end development

Question 3:
List 5 Project Management tools?

Answer:
- Trello
- EventCollab
- Jira
- Podio
- Work Zone

Question 4:
List the phases of software development life cycle?

Answer:
- Requirements gathering
- Analysis
- Implementation
- Testing
- Integration
- Deployment
- Maintenance