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**Answer To The Question No: 1**

Extreme programming (XP) is a software development methodology which is intended to improve software quality and responsiveness to changing customer requirements. XP has become one of the most popular agile methods currently. The reason behind it is its high dependency on communication and interaction, focusing in current requirements rather than anticipating unstable requirements and great team feedback with the ability to make some major diction if needed. The values, process and practices of this model makes it a great contender for agile methods in current software development. This 5 phases model contains Exploration, Planning, Iterations to Release, Productionizing, Maintenance and Death are suitable for a big project that has complex structure and which undergoes several changes along its development. XP is the most specific of the agile frameworks regarding appropriate engineering practices for software development.

It is applicable when

i) Dynamically changing software requirements

ii) Risks caused by fixed time projects using new technology

iii) Small, co-located extended development team.

**Answer To The Question No: 2**

The term 'scrum' originally derives from a strategy in the game of rugby where it denotes "getting an out-of play ball back into the game" with team work scrum is a process framework used to manage product development and other knowledge work. Scrum is a project management technique that is actively used in product development and software development. It is an agile process. Scrum has a wide range of usability. No matter what size the project is, it could be managed by scrum. In individual freelance projects, scrum is inappropriate to apply. As scrum is a very powerful agile method to manage big software projects, also it takes a lot of phase of action to execute properly. Scrum process includes three phases: pre-game, development and post-game.

Two important differences between XP and Scrum are:-

i) **Focus:** Scrum programming mainly focuses on “Management and Productivity” to develop whereas Extreme programming (XP) focuses on “Programming and Testing”.

ii) **Sprint Duration:** Scrum sprint duration is generally between 2-4 weeks and it has flexible length whereas in XP the duration is 1-2 weeks.