Different Agile approches and their compensive Analysis?

- 1. How it works?
- 2. Applicability?
- 3. Effectiveness?

Agile is a flexible, iterative approach to project management and software development that tocuses on delivering value incrementally and adapting to change. There are several agile methodologies, each with unique teatures, applications and level of effectiveness. Hene's a comparative analysis of some popular agile approaches: -

#### 1. Schum

# How it works:

- 1) Divides work into fixed-length Herations called sprints (usually 2-4 weeks).
- 11) Roles: product owners, Scrum Master, Development
  Team.

- III) Ceremonies: Sprint planning Daily Stand-ups, Sprint neviews, and retrospectives.
- IV) Uses a product backlog for prioritizing tasks.

# Applicability:

- 1) Suitable For projects with rapidly changing requirements.
- 11) Ideal For teams of up to 10 members.

#### Effectiveness:

- 1) Encourages regular feedback and adaption.
- 11) Works well for projects requiring trequent deliverables.
- 111) Risks anse if noles are not well understood.
- 2. Extreme priogramming (xp)

### How it works:

1) Emphasizes technical excellence through practices like pala programming test driven development (TDD), and triequent releases.

- 11) Encourages close collaboration with customers.
- 111) Values Simplicity and Irrequent feedback.

## Applicability;

- 1) Effective For Small to medium sized team in software development.
- 11) Suitable for projects requiring high-quality code and updates.

#### Effectivesso

- 1) Reduces bugs and improves code quality
- 11) Demands disciplined adherence to practices, which can be challenging.

#### 3. Kanban

### How "it works;

- 1) Visualizes workflow on a kanban board with columns representing stages.
- 11) Limits work in progress (WIP) to prievent bottlenecks
- 111) Focuses on continuous delivery without fixed

in iterations.

## Applicability:

- 1) Best For teams needing flexibility and continuous delivery.
- ment workflows.

#### Effectiveness:

- 1) Improves visibility and flow of tasks.
- 11) Lack time boxed goals, which may hinden deadlines.
- 111) Adaptable For teams transitioning to Agile.

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