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A) A simple data processing project.

➔ Software Process Model: Waterfall Model

- Waterfall Model is the most accessible Model, so it is used for simple data processing projects.

B) A data entry system for office staff who have never used computers before. The user interface and user-friendliness are extremely important.

➔ Software Process Model: Iterative waterfall model

- Because the iterative waterfall model is most useful for a small project where the iterative process helps to provide a better user interface and usability.

C) A spreadsheet system has some basic features and many other desirable features that use these basic features.

➔ Software Process Model: Waterfall Model

- Because the spreadsheet is designed for implementing basic features and the waterfall model is best suited for this type of development.

D) A web-based system for a new business where requirements are changing fast and where an in-house development team is available for all aspects of the project.

➔ Software Process Model: Agile Model

- Because the agile model is the most suitable in cases when the user requirements are changing fast.

E) A Web-site for an on-line store which has a long list of desired features it wants to add, and it wants a new release with new features to be done very frequently.

➔ Software Process Model: Agile Model

- Agile with the Scrum framework allows online websites to add and release new features in frequent times.

F) A system to control anti-lock braking in a car.

➔ Software Process Model: Agile Model

- Agile development processes encourage regular feedback and change, which is essential for creating safety-critical systems. It makes sure that the anti-lock braking system is always getting better and that it satisfies both consumer expectations and the necessary safety regulations.

G) A virtual reality system to support software maintenance.

➔ Software Process Model: Incremental Model

- The Incremental Development model is the most suitable choice for building a virtual reality system to support software maintenance due to its adaptability to feedback.

H) A university accounting system that replaces an existing system.

➔ Software Process Model: Incremental Model

- The Incremental Model is the most suitable choice for developing a university accounting system to replace an existing system due to its risk mitigation, continuous feedback, adaptability, and reduced time to market.

I) An interactive system that allows railway passenger to find train times from terminals installed in stations.

➔ Software Process Model: Prototyping Model

- This model is used when detailed information related to the input and output requirements of the system is not available. It allows users to interact with a working model of the system, providing valuable feedback to developers.

J) Company has asked you to develop software for missile guidance system that can identify a target accurately.

➔ Software Process Model: Iterative Model

- The Iterative Model is a suitable choice for developing software for a missile guidance system due to its risk reduction, continuous improvement, flexibility to evolving requirements, customer feedback, and phased deployment.

K) When emergency changes have to be made to systems, the system software may have to be modified before changes to the requirements have been approved. Choose a process model for making these modifications that ensures that the requirements documents and the system implementation do not become inconsistent.

➔ Software Process Model: Agile Model

- Agile is suitable for projects with rapidly changing requirements, as it allows for flexibility and regular updates in product development.

L) Software for ECG machine.

➔ Software Process Model: Agile Model

- The requirements of medical devices like ECG machines can evolve over time. Agile allows for easy adaptation to changing requirements and priorities, ensuring the software remains up-to-date.

m) A small scale well understood project (no changes in requirement will be there once decided).

➔ Software Process Model: Waterfall Model

- This model is suitable for small projects with clear requirements and predictable outcomes. It's a linear sequential model where progress flows steadily downwards like a waterfall through the phases of conception, initiation, analysis, design, construction, testing, production/implementation, and maintenance.