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Date: YOUVA

Assignment Test

Q. Differentiate in between waterfall and spiral model.

: Waterfall   Spiral Model.
  Model

① waterfall model   ① Spiral model works in
   works in sequential   evolutionary method
   method

② Errors or risks are   ② Spiral model errors or risks
   identified and rectified   are identified and
   after the completion of   rectified earlier
   stages

③ Waterfall model is   ③ Spiral model is used for
   applicable for small project   large projects

④ Requirements and   ④ Spiral model requirements and
   early stage planning is   early stage planning is
   necessary   necessary if required

⑤ Flexibility to   ⑤ Flexibility to change in
   change in waterfall   spiral model is not
   model is difficult   difficult

⑥ There is high   ⑥ low amount of risk in
   amount of risk in this   spiral model

⑦ Waterfall is   ⑦ cost of spiral model is
   comparatively   very expensive.
   inexpensive

Q Define software Engineering. Explain umbrella activities of software engineering.

→ Software engineering is an engineering discipline which is concerned with all aspects of software production.

Following are the umbrella activities:

① Measurement - defines and collects process, project, and product measures that assist the team in delivering software that meets stakeholder's needs

② software configuration management - manages the effects of change throughout the software process

③ work product preparation and production - includes the activities required to create work products such as models, documents, logs, forms and lists

④ Risk Management - assesses risks that may affect the outcome of the project or the quality of the product

⑤ software quality assurance - defines and conducts the activities to ensure software quality

⑥ software project tracking and control - allows the software team to assess progress against the project plan and take any necessary action to maintain the schedule.