

TEST QUESTIONS (30 points)

- 1) Most software continues to be custom built because
 - a. Component reuse is common in the software world
 - b. Reusable components are too expensive to use
 - c. Software is easier to build without using someone else's components
 - *d. Off the shelf software components are not commonly available
- 2) Which is the first phase of the Waterfall software process model?
 - a. design
 - b. prototype
 - *c. requirement
 - d. implementation
- 3) The prototyping model of software development is
 - a. A reasonable approach when requirements are well defined
 - * b. A useful approach when a customer cannot define requirements clearly
 - c. The best approach to use for projects with large development teams
 - d. A risky model that rarely produces a meaningful product
- 4) The objective of software project planning is to
 - a. convince the customer that a project is feasible
 - b. make use of historical project data
 - *c. enable a manager to make reasonable estimates of cost and schedule
 - d. determine the probable profit margin prior to bidding on a project
- 5) Software risk impact assessment should focus on consequences affecting
 - a. planning, resources, cost, schedule
 - b. marketability, cost, personnel
 - c. business, technology, process
 - *d. performance, support, cost, schedule
- 6) For purposes of determining the major engineering tasks and distributing them on the project time line, the project manager should assume that the process model used is
 - a. linear sequential
 - b. iterative
 - c. evolutionary
 - *d. any of the above
- 7) A key concept of quality control is that all work products
 - a. are delivered on time and under budget
 - b. have complete documentation
 - *c. have measurable specifications for process outputs
 - d. are thoroughly tested before delivery to the customer
- 8) What types of models are created during software requirements analysis?
 - *a. functional and behavioral
 - b. algorithmic and data structure
 - c. architectural and structural
 - d. usability and reliability
- 9) The data flow diagram
 - a. depicts relationships between data objects
 - *b. depicts functions that transform the data flow
 - c. specified major logical decisions as they occur
 - d. indicates system reactions to external events
- 10) Performing a grammatical parse of the processing narrative is the good first step to take in producing a
 - a. data dictionary
 - * b. data flow diagram
 - c. entity relationship diagram
 - d. state transition diagram
- 11) The control hierarchy represents the
 - a. decision order
 - *b. organization of modules
 - c. repetition of operations
 - d. sequence of processes

- 12) PDL focuses on the
- a. control hierarchy in a more abstract sense
 - *b. processing details of each module individually
 - c. processing details of each the set of modules collectively
 - d. relationship between control and procedure
- 13) A necessary supplement to transform or transaction mapping needed to create a complete architectural design is
- a. entity relationship diagrams
 - b. the data dictionary
 - *c. processing narratives for each module
 - d. test cases for each module
- 14) In transaction mapping the first level factoring results in the
- a. creation of a CFD
 - *b. derivation of the control hierarchy
 - c. distribution of worker modules
 - d. refinement of the module view
- 15) In general, flowcharts should
- a. be used in place of programming design languages
 - b. be used to document the entire design or not at all
 - *c. only be used to document or evaluate design in specific instances
 - d. none of the above