



Question-Bank

System Project Management (Đại học Hà Nội)



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Question Bank - SPM

1 When a project is being performed under contract, the product description is provided by which1 of the following?

- A. The buyer
- B. The project sponsor
- C. The project manager
- D. The contractor

2 Span of control in project management is the range of employees who to report to a _____

- A. Managerial position
- B. Developer
- C. Customer
- D. None of the given

3 Resource allocation task is performed in phase _____

- A. Project initiation
- B. Project closedown
- C. Project planning, control, and tracking
- D. Product implementation

4 Auditing is activity of _____

- A. Construction
- B. Design
- C. SCM
- D. Testing

5 _____ associated with constraints imposed by management or the marketplace.

- A. Business impact-risks
- B. Product size-risks
- C. Process definition-risks
- D. Customer characteristics-risks

6 The training plan NOT contain the activity _____

- A. Training Courses
- B. Training Schedule
- C. Software Components for Installation
- D. Roles and Responsibilities

7 _____ is an evolutionary life cycle model that combines the linear nature of the Waterfall model and the iterative nature of the Prototyping model

- A. The RAD Model
- B. The Waterfall Model
- C. The Prototyping Model
- D. The Spiral Model

8 People are managed through an organizational structure. This hierarchical structure is based on the _____ cornerstones of management

- A. Three
- B. Four
- C. Five
- D. Two

9 Traditional structures of business organization are of _____ types

- A. 4
- B. 5
- C. 1
- D. 3

10 Specify any company or industry-specific standards that are relevant to performing the work is called _____

- A. Deliverables Schedule
- B. Applicable Standards
- C. Acceptance Criteria
- D. Special Requirements

11 Using the intermediate COCOMO technique effort is calculated in _____

- A. Five-step Process
- B. Two-step process
- C. Three-step process
- D. Four-step process

12 _____ is NOT a guideline for creating a software project schedule?

- A. Classification
- B. Interdependence
- C. Decomposition
- D. Validation criteria

13 Dividing a software project into phases helps you in managing the _____ involved in the software project.

- A. Complexities
- B. Uncertainties
- C. Complexities, Uncertainties
- D. Size

14 Unstructured and hurried software development is a _____

- A. Technology-related problem
- B. Product-related problem
- C. Process-related problem
- D. People-related problem

15 We use _____ when the organization is small, geographically centralized, and provides few goods and services.

- A. Functional structures
- B. Projectized Structure
- C. Both Functional structures, Projectized Structure
- D. Neither Functional structures nor Projectized Structure

16 Your WBS design should try to achieve certain goal/s except _____

- A. Allow mapping of requirements, plans, testing, and deliverables
- B. Foster clear ownership by managers and task leaders
- C. Provide data for performance measurement and historical databases,
- D. Do not give visibility to important or risky work efforts

17 _____ is /are basic network-scheduling techniques.

- A. PERT
- B. CPM
- C. Both PERT and CPM
- D. Neither PERT nor CPM

_____ is/are common component/s of PERT and CPM.

- A. Activities
- B. Nodes and Network
- C. Critical path
- D. Activities, Critical path. Nodes and Network

19 Risk Identification involves except _____

- A. Determining which risks might affect the project
- B. Documenting their characteristics
- C. Risk Probability
- D. Identifying risks that may occur on a particular project

20 One of the more recent developments in quality assurance is the realization that quality is attribute that either exists or does not exist.

- A. Not a binary
- B. A binary
- C. Exponential
- D. Both binary and exponential

21 The amount of training time needed for a new user is called _____

- A. Reliability
- B. Recoverability
- C. Availability
- D. User-friendliness

Resources are assigned to tasks for the following reason:

- A. Standard rate: The normal rate at which a resource is procured
- B. Overtime rate: The rate that you pay if you overuse a work resource
- C. Both Standard rate and Overtime rate
- D. Neither Standard rate nor Overtime rate

_____ committee is set up to monitor implementation committee

- A. Implementation department
- B. Implementation

- C. Implementation coordination
D. Configuration

The user-representative gives the sign-off after _____

24 A. Acceptance testing
B. Project failure
C. Unit Testing
D. White Box Testing

The primary input to create the software is/are _____

25 A. Project Resources
B. Project Cost
C. Project schedule
D. Project Plan

Fuzzy users are a _____ related problem

26 A. People
B. Product
C. Process
D. Technology

If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be _____

27 A. Correct
B. Unambiguous
C. Consistent
D. Verifiable

If every requirement can be checked by a cost-effective process, then the SRS is _____

28 A. Verifiable
B. Traceable
C. Modifiable
D. Complete

Which of the following is an output from Software Development Process (SDP)?

29 A. Project plan
B. Work results
C. Change requests
D. Supporting details

The activity that distributes estimated effort across the planned project duration by allocating the effort to specific software engineering tasks is called _____

30 A. Cost management
B. Project schedule
C. Effort management
D. Activity management

Requirements can be refined using _____

31 A. Waterfall model
B. Prototyping model
C. Evolutionary model
D. Spiral model

The ISO quality assurance standard that applies to software engineering is _____

32 A. ISO 9000
B. ISO 9001
C. ISO 9002
D. ISO 9003

All activities lying on critical path have slack time equal to _____

33 A. 0
B. 1
C. 2
D. 3

Which of the following planning is highly affected by organizational planning?

34 A. Scope planning
B. Quality planning
C. Testing planning

D. Communication planning

Which of the following is not a size metric?

- 35
A. LOC
B. Function count
C. Program length
D. Cyclomatic complexity

The model that assumes that effort and development time are functions of product size alone is _____

- 36
A. Basic COCOMO model
B. Intermediate COCOMO model
C. Detailed COCOMO model
D. All the three COCOMO models

How many risk stages are there in risk management plan?

- 37
A. 2
B. 3
C. 4
D. 5

Functional decomposition of a software project is a division of the system into _____

- 38
A. Operational components
B. High level components
C. Low level modules
D. Low level modules and high level components

_____ is another important factor that can affect the accuracy and efficacy of estimates.

- 39
A. Project Size
B. Project Cost
C. Project Time
D. project Risk

CPM stands for _____ .

- 40
A. Cyclic Path Method
B. Cross process Model
C. Critical Path Method
D. Cyclic Process Method

The Source Line of Code (SLOC) technique is _____ .

- 41
A. Platform-Dependent
B. Language-Dependent
C. Technique-Dependent
D. Functional-Dependent

Scheduling for software engineering projects can be viewed from _____ rather different perspectives.

- 42
A. One
B. Two
C. Three
D. Four

Estimation of following Critical factors are essential EXCEPT _____ .

- 43
A. Cost
B. Time
C. Effort
D. Risk

Which of the following guideline for creating the software project schedule is used to group similar tasks and activities so that they are completed successfully?

- 44
A. Interdependence
B. Time and effort allocation
C. Classification
D. Defined responsibilities and outputs

_____ is measured by the degree of uncertainty in the quantitative estimates established for resources, cost, and schedule.

- 45
A. Time
B. Size
C. Risk
D. Access

_____ is the most expensive element of virtually all computer-based systems.

46

- A. Software
- B. Customer
- C. Hardware
- D. Cost

Which of the following tools and techniques shows the impacts of one decision over another as well as the probability and cost of each risk along a logical path?

47

- A. Simulation
- B. Decision tree
- C. Probability /impact risk matrix
- D. Sensitivity analysis

_____ is not an evaluation method used to validate performance.

48

- A. Transaction Logs
- B. Testing for adherence to spec
- C. Setup schedule for reviews
- D. Business Development

CSOM stands for _____

49

- A. Computer system operator's manual
- B. Computer system offered manual
- C. Computer software operator's manual
- D. Computer system obvious manual

_____ (s) are tangible results produced by processes in the system, such as products or services for consumers.

50

- A. Input
 - B. Process
 - C. Output
 - D. Feedback
- _____ technique used to integrate the projects scope, schedule, and resources and to measure and report project performance from initiation to closeout

51

- A. PMIS
- B. EVM
- C. Stakeholder skills and knowledge
- D. PV

Estimation of all the factors are essential EXCEPT _____ .

52

- A. Quality
- B. Cost
- C. Effort
- D. Risk

It is the _____ responsibility to select the structure best suited for the project.

53

- A. Product Manager's
- B. Planner
- C. Project Manager's
- D. Process Manager's

To expand or contract project scope, to modify cost, or schedule estimates are examples of _____

54

- A. Work results
- B. Change request
- C. Change schedule
- D. Change scope

The _____ of scope planning are the scope statement and scope management plan, with the supporting detail.

55

- A. Outputs
- B. Inputs
- C. Processes
- D. Logs

Staffing management plan can be _____

56

- A. Formal
- B. Informal
- C. highly detailed
- D. All is correct

_____ is one of the most important management activity and is an ongoing effort throughout the life of the project.

- 57
- A. Analysis
 - B. Planning
 - C. Organizing
 - D. Leading

All of the following are descriptions of how new system is to be developed in Technical Approach _____

- 58
- A. Technologies
 - B. Consultants
 - C. Architectural Layout
 - D. Derivatives of existing

If the size of a project is extensive and the client prefers all the features of the proposed project at the first delivery, you can select the _____ Model.

- 59
- A. Incremental
 - B. RAD
 - C. Prototyping
 - D. Waterfall

The DIDs (Data Item Description) includes a section called _____

- 60
- A. Formal Documentation
 - B. Preparation Instruction
 - C. Associated Documentation
 - D. Effective Resolution

It is the responsibility of _____ to select the structure best suited for the project.

- 61
- A. Team Lead
 - B. Project Manager
 - C. Supervisor
 - D. Group

People are managed through a(n) _____

- 62
- A. Nature
 - B. Organizational structure
 - C. Organizational culture
 - D. Culture

PMIS Stands for _____

- 63
- A. Process Management Inter System
 - B. Project Management Information System
 - C. Program Maintenance Interior System
 - D. Personal Matters Information System

_____ is the process of progressively elaborating and documenting the project work that produces the product of the project.

- 64
- A. Technical Approach
 - B. Scope planning
 - C. Resource Allocation
 - D. Evaluation Methods

A _____ contract is a commitment by the developer to provide an agreed product or service for an agreed fee, within an agreed schedule

- 65
- A. Cost-Plus
 - B. Variable Price
 - C. Fixed price
 - D. Schedule

The software equation can be used to show that _____

- 66
- A. Productivity goes up when deadline changes
 - B. Total effort is mainly driven by size in KLOC
 - C. Any deadline can be met by increasing team size
 - D. Cost may become prohibitive with schedule compression

?

Risk projection attempts to rate each risk in two ways:

- 67
- A. likelihood and exposure
 - B. likelihood and consequences
 - C. likelihood and cost
 - D. likelihood and impact

A project budget report shows spending of \$350,000 against a budgeted amount of \$400,000. Which of the following is true?

- 68
- A. The project will complete within budget

- B. They are doing a good job managing the project
C. We can not be sure how the project is going
D. Project is spending less than the required amount

The 40-20-40 rule suggests that the least of amount of development effort be spent on _____

- 69
A. Planning
B. Coding
C. Testing
D. Modeling

A task set is a collection of _____

- 70
A. responsibilities, milestones, documents
B. engineering work tasks, milestones, deliverables
C. milestones, deliverables, metrics
D. task assignments, cost estimates, metrics

Resource leveling can not help with _____

- 71
A. Reduced fluctuations in resource demand
B. Improvement in critical path
C. Reduced resource need over the life of the project
D. Lower peak demand

The level of review formality is not determined by _____

- 72
A. reviewer follow-up
B. structure of review
C. size of project budget
D. amount of preparation

While scheduling a project, effort validation is required for _____

- 73
A. Checking size estimates
B. Work load of members
C. Competence of team
D. Timely completion

The purpose of earned value analysis is to _____

- 74
A. provide a qualitative means of assessing software project progress
B. set the price point for a software product based on development effort
C. provide a quantitative means of assessing software project progress
D. determine how to compensate developers based on their productivity

Which of the following is not an approach to sizing problem?

- 75
A. Fuzzy Logic
B. Schedule Focus
C. Component Sizing
D. Function Point

Which of the following are objectives for formal technical reviews?

- 76
A. determining who introduced an error into a program
B. assess programmer productivity
C. allow senior staff members to correct errors
D. uncover errors in software work products

Which of the following provide useful measures of software quality?

- 77
A. reliability, maintainability, integrity, sales
B. correctness, maintainability, integrity, usability
C. correctness, controllability, integrity, usability
D. correctness, maintainability, size, satisfaction

Three categories of risks in software projects are _____

- 78
A. management risks, technical risks, design risks
B. planning risks, technical risks, personnel risks
C. business risks, personnel risks, budget risks
D. project risks, technical risks, business risks

The best indicator of progress on a software project is the completion of _____

- 79
A. successful budget review meeting on time
B. successful review of a defined software work product

- C. successful acceptance of project prototype by the customer
D. defined engineering activity task

In earned value analysis, it is desirable that variance and index are _____

- 80 A. positive and less than 1
B. negative and greater than 1
C. negative and less than 1
D. positive and greater than 1

Empirical estimation models are typically based on _____

- 81 A. refinement of expected value estimation
B. regression model derived from historical project data
C. trial and error determination of the parameters and coefficients
D. expert judgement based on past project experiences

As per Putnam's Software Equation, when development time is reduced by 5%, effort goes up by _____

- 82 A. 5%
B. Effort goes down
C. Over 20%
D. About 10%

Which of the following is not one of the guiding principles of software project scheduling?

- 83 A. Effort Validation
B. Market assessment
C. Time allocation
D. Compartmentalization

A risk table will not contain following information about risk:

- 84 A. Impact
B. Probability
C. Category
D. Source

Which of the following is not one of the attributes of software quality?

- 85 A. Useful products satisfy stakeholder requirements
B. Adds value for developers and users
C. Effective software process creates infrastructure
D. Removes need to consider performance issues

The critical path in a project network is the _____

- 86 A. Shortest path through the network
B. Network path with the most difficult activities
C. Network path using the most resources
D. Longest path through the network

Software risk impact assessment should focus on consequences affecting _____

- 87 A. planning, resources, cost, schedule
B. marketability, cost, personnel
C. business, technology, process
D. performance, cost, support, schedule

The first step in project planning is to _____

- 88 A. determine the budget
B. determine the project constraints
C. establish the objectives and scope
D. select a team organizational model

To construct a high-quality, custom home within five months at costs not to exceed \$150,000 is best classified as _____

- 89 A. Deliverable
B. Objective
C. Milestone
D. Exclusion

Why is it important to measure the process of software engineering and software it produces?

- 90 A. To determine costs and allow a profit margin to be set
B. To make software engineering more like other engineering processes
C. To determine whether a software group is improving or not

- D. It is really not necessary unless the project is extremely complex

Software feasibility is based on which of the following:

- 91
A. business and marketing concerns
B. scope, constraints, market
C. technology, finance, time, resources
D. technical prowess of the developers

The prototyping model of software development is _____

- 92
A. A reasonable approach when requirements are well defined
B. The best approach to use for projects with large development teams
C. A risky model that rarely produces a meaningful product
D. A useful approach when customer can not define requirements clearly

Which is the best example of a project?

- 93
A. Producing automobiles
B. Writing a term paper
C. Developing HIV vaccine
D. Processing insurance claims

Which measurement activity is missing from this list: Formulation, Collection, Analysis, Interpretation ?

- 94
A. Measurement
B. Quantification
C. Feedback
D. Design

In Agile software development estimation techniques focus on the time required to complete each _____

- 95
A. use-case
B. scenario
C. increment
D. task

Which of the following items are not measured by software project metrics?

- 96
A. Outputs
B. Markets
C. Results
D. Inputs

The most important feature of spiral model is _____

- 97
A. quality management
B. configuration management
C. risk management
D. requirement analysis

Which of the following is not a measurable characteristic of an object-oriented design?

- 98
A. size
B. volatility
C. efficiency
D. completeness

Which of the following is not a main project objective?

- 99
A. Quality
B. Structure
C. Cost
D. Time

Which of the following is NOT a main element of the project management activities?

- 100
A. Estimate
B. Monitor
C. Design
D. Schedule

Make/Buy decisions are usually not driven by _____

- 101
A. Support concerns
B. Cost of acquisition
C. Time to market
D. Staff aspirations

Which of the following is not one of the commonly heard comments of project managers?

- A. How can all these projects be first priority?
B. Where are we going to get the resources to do this project?
C. Why is this project so strongly linked to the strategic plan?
D. Why are we doing this project?

102

Which of these are the 5 generic software engineering framework activities?

- A. analysis, planning, designing, programming, testing
B. communication, risk management, measurement, production, reviewing
C. communication, planning, modeling, construction, deployment
D. analysis, designing, programming, debugging, maintenance

LOC-based estimation techniques require problem decomposition based on _____

- A. project schedule
B. software functions
C. information domain values
D. process activities

FP-based estimation techniques require problem decomposition based on _____

- A. process activities
B. information domain values
C. software functions
D. project schedule

The Process Models differ from one another based on following factors except _____

- A. Manner of Quality Assurance
B. Team Organization and Roles
C. Conformance to quality standards
D. Based on flow of activities

One reason to involve everyone on the software team in the planning activity is to _____

- A. control feature creep
B. get all team members to "sign up" to the plan
C. understand the problem scope
D. adjust the granularity of the plan

Which of the following is not a weak point of waterfall lifecycle?

- A. Difficult to keep entire team busy with work
B. Difficult to prepare a plan early
C. Difficult for the customer to state all requirements
D. Working version of the program is not available soon

Which of the following is not necessary to apply agility to a software process?

- A. Process allows team to streamline tasks
B. Eliminate the use of project planning and testing
C. Uses incremental product delivery strategy
D. Only essential work products are produced

The incremental model of software development is _____

- A. A reasonable approach when requirements are well defined
B. The best approach to use for projects with large development teams
C. A good approach when a working core product is required quickly
D. A revolutionary model that is not used for commercial products

The Waterfall model of software development is _____

- A. The best approach to use for projects with large development teams
B. A good approach when a working program is required quickly
C. An old fashioned model that is not used any more
D. A reasonable approach when requirements are well defined

Project selection criteria are typically classified as _____

- A. Short-term and long-term
B. Strategic and tactical
C. Financial and non-financial
D. Required and optional

The first reverse engineering activity involves seeking to understand _____

- A. business trends

- B. user interface
C. processing
D. data

Which of the following is not considered one of the four important elements that should exist when a configuration management system is developed?

- A. human elements
B. component elements
C. process elements
D. validation elements

114

Which of the following tasks is not part of software configuration management?

- A. version control
B. statistical quality control
C. change control
D. reporting

115

Software safety is a quality assurance activity that focuses on hazards that _____

- A. prevent profitable marketing of the final product
B. affect the reliability of a software component
C. may result from user input errors
D. may cause an entire system to fail

116

A review summary report answers which three questions?

- A. what defects were found, what caused defects, who was responsible
B. terminate project, replace producer, request a time extension
C. project situation, success story, improvement point
D. what was reviewed, who reviewed it, what were the findings

117

Software reliability problems can almost always be traced to _____

- A. errors in operation
B. errors in design /implementation
C. errors in accuracy
D. errors in requirements

118

Which of the following is not ISO 9126 software quality factors?

- A. Portability
B. Functionality
C. Reliability
D. Security

119

Which of the following activities is not part of the software reengineering process model?

120

- A. inventory analysis
B. reverse engineering
C. forward engineering
D. prototyping

The Hofstede framework for global engagements includes all of the following dimensions except _____

121

- A. Power distance
B. Language Skills
C. Uncertainty avoidance
D. Masculinity-femininity

Which of these is not a benefits achieved when software is restructured?

122

- A. higher quality programs
B. software easier to test
C. improved performance
D. reduced maintenance effort

When software configuration management is a formal activity the software configuration audit is conducted by the _____

123

- A. senior managers
B. quality assurance group
C. test team
D. development team

Six Sigma methodology defines three core steps, including _____

124

- A. define, measure, control
B. define, measure, analyze
C. analyze, improve, control

- D. analyze, design, verify

Software reengineering process model does not include restructuring activities for _____

- 125
A. code
B. organizational structure
C. documentation
D. data

At the end of a formal technical review all attendees can decide to _____

- 126
A. modify the work product and continue the review
B. reject the product due to stylistic discrepancies
C. accept the work product without modification
D. advise developer about the problem domain

Which of these are not valid software configuration items?

- 127
A. test data
B. email
C. documentation
D. Utility programs

Which of these is not an example of data restructuring?

- 128
A. data name rationalization
B. refining entity relationships
C. data record standardization
D. data analysis

Advantages of outsourcing project work may likely include all of the following except _____

- 129
A. Shortened project completion
B. Reduced costs
C. Higher level of expertise
D. Reduced conflict

The ISO quality assurance standard that applies to software engineering is _____

- 130
A. ISO 9002
B. ISO 9000
C. ISO 9003
D. ISO 9001

Which of the following is not an issue to consider when reverse engineering?

- 131
A. directionality
B. connectivity
C. completeness
D. abstraction level

A project is a _____ endeavor

- 132
A. temporary
B. good
C. bad
D. none is correct

Project creates _____ products or services

- 133
A. reusable
B. unique
C. common
D. none is correct

A project is considered successful when:

- 134
A. the product of the project has been manufactured
B. the project sponsor announces the completion of the project
C. the product of the project is turned over to the operation area to handle the ongoing aspects of the project
D. the project meets or exceeds the expectations of the stakeholders

Which of these software characteristics are used to determine the scope of a software project

- 135
A. context, lines of code, function
B. context, function, communication requirements
C. information objectives, function, performance
D. communication requirements, performance, information objectives

Which of the following brings together a set of tools and techniques used to describe, organize and monitor the work of project activities?

- 136
- A. Project managers
 - B. Guide to the PMBOK
 - C. Project management
 - D. Stakeholders

What are the triple constraints?

- 137
- A. Time, schedules and quality
 - B. Time, availability and quality
 - C. Time, money and schedule
 - D. Time, money and quality

Projects have been predetermined

- 138
- A. Time span
 - B. Budget
 - C. None is correct
 - D. Both time span and budget

Feasibility is carried out in

- 139
- A. Initiation phase
 - B. Definition phase
 - C. Design phase
 - D. Development phase

Which of the following principles of project management defines and controls the functions that are to be included in the system?

- 140
- A. Project Quality Management
 - B. Project Cost Management
 - C. Project Time Management
 - D. Project Scope Management

Which of the following are project management processes?

- 141
- A. Planning and develop processes
 - B. Analyzing and evaluate processes
 - C. Planning and executing processes
 - D. None is correct

Your project _____ statement tells you what must be done, how it must be done

- 142
- A. assumption
 - B. resource
 - C. scope
 - D. constraint and objectives or specification to be met

A WBS numbering system allows project staff to

- 143
- A. systematically estimate costs of WBS elements
 - B. provide project justification
 - C. identify the level at which individual items are found
 - D. use it in the project management software

To manage a project effectively, work should be broken down to small pieces. Which of the following does not describe how far to decompose the work?

- 144
- A. Until it has a meaningful conclusion
 - B. Until it cannot be logically subdivided further
 - C. Until it can be done by one person
 - D. Until it can be realistically estimated

If you guess how much time or money you need it is called _____

- 145
- A. Estimate
 - B. Duration
 - C. Level of effort
 - D. Process

Which of the following is not a part of WBS?

- 146
- A. Activity
 - B. Time
 - C. Tasks
 - D. Steps

A project schedule is the _____ of when things will happen in a project

- 147
- A. Specification
 - B. Order
 - C. Group
 - D. Activity

If you guess how much time or money you need it is called _____

- A. Estimate
- B. Duration
- C. Level of effort
- D. Process

Tring

If the activity or task is represented on the node (boxes) it is known as

- 148
- A. Activity on Node diagram
 - B. Activity on Arrow Diagram
 - C. Task Diagram
 - D. None is correct

Estimation techniques depend on the prior _____ and _____ of project managers

- 149
- A. Age and Experience
 - B. Honesty and Abilities
 - C. Management and Knowledge
 - D. Experience and Domain knowledge

_____ and _____ will never be an exact science

- 150
- A. Error and Estimation
 - B. Testing and Maintains cost
 - C. Software cost and Effort estimation
 - D. Software cost and output

_____ is a systematic attempt to specify threats to the project plan

- 151
- A. Software sizing
 - B. Risk identification
 - C. Linear models
 - D. COCOMO

_____ tools implement one or more decomposition techniques or empirical models

- 152
- A. Automated estimation
 - B. Multiplicative
 - C. Problem-based
 - D. Monitoring

SLOC means _____

- 153
- A. Source Line of Control
 - B. Source Line of Code
 - C. Second Line of Code
 - D. South Line of Code

_____ are used for estimation in Large Scale

- 154
- A. SLOC
 - B. FP
 - C. KSLOC
 - D. SEE

?

_____ are consists of a number of dependent phases that are executed in a sequential order with no feedback loops

- 155
- A. Multiplicative models
 - B. COCOMO
 - C. Seer-Sem
 - D. Linear Models

The project manager should monitor the _____ of the risk mitigation steps

- 156
- A. Cost
 - B. Abilities
 - C. Activities
 - D. Effectiveness

_____ are potential threat to every software project

- 158
- A. Generic risks
 - B. Models
 - C. Estimation
 - D. Problems

The project managers identify the _____ that affect software risk components

- A. Design
- B. Risk Drivers
- C. Area
- D. Performance

To define all project tasks, build a network that depicts their _____

- 159
- A. Interdependencies
 - B. Arrangement
 - C. Position
 - D. Work

Software project scheduling is an activity that distributes _____ across the planned project duration

- 160
- A. Resource
 - B. Time
 - C. Estimated effort
 - D. Money

All estimation methods are based upon the _____ core metrics

- 161
- A. Three
 - B. Two
 - C. Five
 - D. Six

UCP means _____

- 162
- A. You case points
 - B. Use case preference
 - C. Use case perfect
 - D. Use case points

A task network, also called activity network, is a _____ of the task flow for a project

- 163
- A. Slide presentation
 - B. Video
 - C. Graphic representation
 - D. Drawing

Full for of WBS is

- 164
- A. With both system
 - B. Work breakdown structure
 - C. Without break structure
 - D. Work bound system

The _____ provides a road map for a software project manager

- 165
- A. Project Cost
 - B. Project Resources
 - C. Project Schedule
 - D. Project Distribution

?

Which one of the following best describes analogous estimating?

- 166
- A. Regression analysis
 - B. Bottom up estimating
 - C. Less accurate
 - D. More accurate

You are the project manager for GHG project. You are about to create the cost estimates for the project. Which input to this process will help you the most?

- 167
- A. Parametric modelling
 - B. WBS
 - C. Project scope
 - D. Requirement document

Which one of the following provides the least accurate in estimating?

- 168
- A. Rough order of magnitude

- A. Budget estimate
B. Definitive estimate
C. WBS estimate

Which one of the following is true?

- 169 A. The cost management plan controls how change management affects the BAC
B. **The cost management plan controls how cost variances will be managed**
C. The cost management plan controls how the project manager may update the cost estimates
D. The cost management plan controls how the BAC may be adjusted

What is the present value if the organization expects to make \$100,000 four years from now and the annual interest rate is 6%?

- 170 A. \$100,000
B. **\$58,000**
C. \$25,000
D. Zero

You are the project manager for the construction of a new hotel. Before you begin the cost budgeting process, what is needed?

- 171 A. Cost estimates and project schedule
B. Cost estimates and supporting detail
C. EAC and BAC
D. Parametric model used to arrive at the costs submitted

Of the following, which one is the most reliable source of information for estimating project costs?

- 172 A. Historical information from a recently completed project
B. An SME's opinion
C. Recollections of team members that have worked on similar projects
D. Vendor's white papers

Approximately what percentage of the world's gross product is spent on projects?

- 173 A. 10 percent
B. **25 percent**
C. 50 percent
D. 75 percent

Which of the following is not a potential advantage of using good project management?

- 174 A. Shorter development times
B. Higher worker morale
C. **Lower cost of capital**
D. Higher profit margins

A _____ is a temporary endeavor undertaken to create a unique product, service, or result.

- 175 A. program
B. process
C. **project**
D. portfolio

Which of the following is not an attribute of a project?

- 176 A. projects are unique
B. projects are developed using progressive elaboration
C. projects have a primary customer or sponsor
D. **projects involve little uncertainty**

Which of the following is not part of the triple constraint of project management?

- 177 A. meeting scope goals
B. meeting time goals
C. **meeting communications goals**
D. meeting cost goals

_____ is the application of knowledge, skills, tools, and techniques to project activities to meet project requirements.

- 178 A. Project management
B. Program management
C. Project portfolio management
D. Requirements management

Project portfolio management addresses goals of an organization, while project management addresses goals.

- 179 A. strategic, tactical
B. tactical, strategic
C. internal, external
D. external, internal

Several application development projects done for the same functional group might best be managed as part of a _____

- 180 A. portfolio
B. **program**
C. investment
D. collaborative

Which of the following is not true?

- A. Most American companies have a project management office.
B. You can earn an advanced degree in project management from hundreds of colleges and universities.
C. Employers are looking for project management skills in new graduates.
D. IT hiring managers reported that project management certification did not affect starting pay.

181

What is the name of one of the popular certifications provided by the Project Management Institute?

- A. Certified Project Manager (CPM)
B. Project Management Professional (PMP)
C. Project Management Expert (PME)
D. Project Management Mentor (PMM)

182

Accountants usually define _____ as a resource sacrificed or foregone to achieve a specific objective or something given up in exchange.

- A. money
B. reliability
C. trade
D. cost

183

What is the main goal of project cost management ?

- A. to complete a project for as little cost as possible
B. to complete a project within an approved budget
C. to provide truthful and accurate cost information on projects
D. to ensure that an organization's money is used wisely

184

Which of the following is not an output of estimating costs ?

- A. activity cost estimates
B. a cost baseline
C. basis of estimates
D. project documents updates

185

If a company loses \$5 for every \$100 in revenue for a certain product, what is the profit margin for that product ?

- A. -5%
B. 5%
C. -\$5
D. \$5

_____ reserves allow for future situations that are unpredictable.

- A. Contingency
B. Financial
C. Management
D. Baseline

186

You are preparing a cost estimate for a building based on its location, purpose, number of square feet, and other characteristics. What cost-estimating technique are you using ?

- A. parametric
B. analogous
C. bottom-up
D. top-down

187

_____ involves allocating the project cost estimate to individual material resources or work items over time.

- A. Reserve analysis
B. Life cycle costing
C. Project cost budgeting
D. Earned value analysis

188

_____ is a project performance measurement technique that integrates scope, time, and cost data.

- A. Reserve analysis
B. Life cycle costing
C. Project cost budgeting
D. Earned value management

189

If the actual cost for a WBS item is \$1,500 and its earned value is \$2,000, what is its cost variance, and is it under or over budget ?

- A. The cost variance is -\$500, which is over budget.
B. The cost variance is -\$500, which is under budget.
C. The cost variance is \$500, which is over budget.
D. The cost variance is \$500, which is under budget.

190

If a project is halfway completed, its schedule performance index is 110%, and its cost performance index is 95%, how is it progressing ?

- A. It is ahead of schedule and under budget.

191

- B. It is ahead of schedule and over budget.
C. It is behind schedule and under budget.
D. It is behind schedule and over budget.

Which of the following is not part of the three-sphere model for systems management?

- 193
A. business
B. information
C. technology
D. organization

Which of the four frames of organizations addresses how meetings are run, employee dress codes, and expected work hours?

- 194
A. structural
B. human resources
C. political
D. symbolic

Personnel in an organizational structure often report to two or more bosses.

- 195
A. functional
B. project
C. matrix
D. hybrid

Project work is most successful in an organizational culture where all of the following characteristics are important except

- 196
A. member identity
B. group emphasis
C. risk tolerance
D. control

A _____ is a product or service, such as a technical report, a training session, or hardware, produced or provided as part of a project.

- 197
A. deliverable
B. product
C. work package
D. tangible goal

Which of the following statements is false?

- 198
A. An analysis project life cycle is a collection of project phases.
B. A product life cycle is the same as a project life cycle.
C. The waterfall approach is an example of a predictive life cycle model.
D. Agile is an example of an adaptive life cycle model.

Which of the following terms describes a framework of the phases involved in developing information systems?

- 199
A. systems development life cycle
B. rapid application development
C. predictive life cycle
D. extreme programming

The nature of software projects is different from projects in many other industries because they are very

- 200
A. expensive
B. technical
C. diverse
D. challenging

What term describes an organization's acquisition of goods and services from an outside source in another country?

- 201
A. globalization
B. offshoring
C. exporting
D. global sourcing

_____ is the leading Agile development method.

- 202
A. Extreme programming
B. Sprint
C. Six sigma
D. Scrum

A _____ is a series of actions directed toward a particular result.

- 203
A. goal
B. process
C. plan

D. project

_____ processes include coordinating people and other resources to carry out project plans and create the products, services, or results of the project or phase.

- 204
A. Initiating
B. Planning
C. Executing
D. Monitoring and controlling
E. Closing

Which process group normally requires the most resources and time?

- 205
A. Initiating
B. Planning
C. Executing
D. Monitoring and controlling
E. Closing

What methodology was developed in the United Kingdom, defines 45 separate subprocesses, and organizes them into eight process groups?

- 206
A. Six Sigma
B. RUP
C. PMBOK® Guide
D. PRINCE2

207
Which of the following outputs is often completed before initiating a project?

- A. stakeholder register
B. business case
C. project charter
D. kick-off meeting

208
A work breakdown structure, project schedule, and cost estimates are outputs of the _____ process.

- A. initiating
B. planning
C. executing
D. monitoring and controlling
E. closing

209
Initiating involves developing a project charter, which is part of the project _____ management knowledge area.

- A. integration
B. scope
C. communications
D. risk

210
_____ involves measuring progress toward project objectives and taking corrective actions.

- A. Initiating
B. Planning
C. Executing
D. Monitoring and controlling
E. Closing

211
Which of the following is not a typical reason that project teams would use a predictive approach versus an agile approach to managing a project?

- A. The project has unclear up-front requirements.
B. The project team is inexperienced and dispersed.
C. Large risks are involved.
D. The completion date is fairly rigid.

212
Many people use _____ to have a standard format for preparing various project management documents.

- A. methodologies
B. templates
C. project management software
D. standards

213
Which of the following processes is not part of project integration management?

- A. developing the project business case
B. developing the project charter
C. developing the project management plan
D. closing the project or phase

214
What is the last step in the four-stage planning process for selecting software projects?

- A. software strategy planning

- 215
B. business area analysis
C. mind mapping
D. resource allocation

Which of the following is not a best practice for new product development projects?

- A. aligning projects and resources with business strategy
B. selecting projects that will take less than two years to provide payback
C. focusing on customer needs in identifying projects
D. assigning project managers to lead projects

216
A new government law requires an organization to report data in a new way. Which of the following categories would include a new information system project to provide this data?

- A. problem
B. opportunity
C. directive
D. regulation

217
If estimates for total discounted benefits for a project are \$120,000 and total discounted costs are \$100,000, what is the estimated return on investment (ROI)?

- A. \$20,000
B. \$120,000
C. 20 percent
D. 120 percent

218
A is a document that formally recognizes the existence of a project and provides direction on the project's objectives and management.

- A. project charter
B. contract
C. business case
D. project management plan

219
Which of the following items is not normally included in a project charter?

- A. the name of the project manager
B. budget information
C. stakeholder signatures
D. a Gantt chart

220
_____ ensures that the descriptions of the project's products are correct and complete.

- A. Configuration management
B. Integrated change control
C. Integration management
D. A change control board

221
Which of the following is not a suggestion for performing integrated change control?

- A. use good configuration management
B. minimize change
C. establish a formal change control system
D. view project management as a process of constant communication and negotiation

222
What tool and technique is used for all processes of project integration management?

- A. project management software
B. templates
C. expert judgment
D. all of the above

223
_____ refer(s) to all the work involved in creating the products of the project and the processes used to create them.

- A. Deliverables
B. Milestones
C. Scope
D. Product development

224
Which tool or technique for collecting requirements is often the most expensive and time consuming?

- A. interviews
B. focus groups
C. surveys
D. observation

225
A _____ is a deliverable-oriented grouping of the work involved in a project that defines its total scope.

- A. scope statement
B. WBS
C. WBS dictionary
D. work package

226
What approach to developing a WBS involves writing down or drawing ideas in a nonlinear format?

- A. top-down
B. bottom-up
C. analogy
D. mind mapping

Assume that you have a project with major categories called planning, analysis, design, and testing. What level of the WBS would these items fall under?

- 227
- A. 0
 - B. 1
 - C. 2
 - D. 3

Which of the following is not a best practice that can help in avoiding scope problems on IT projects?

- 228
- A. Keep the scope realistic.
 - B. Use off-the-shelf hardware and software whenever possible.
 - C. Follow good project management processes.
 - D. Don't involve too many users in scope management.

Why did McDonald's terminate a large project after spending \$170 million on it?

- 229
- A. The company found a better technology.
 - B. The company decided to outsource the work.
 - C. The scope was too much to handle.
 - D. The government requirement that prompted the project was repealed.

Scope _____ is often achieved by a customer inspection and then sign-off on key deliverables.

- 230
- A. acceptance
 - B. validation
 - C. completion
 - D. close-out

Which of the following is not a suggestion for improving user input?

- 231
- A. Develop a good project selection process for software projects.
 - B. Have users on the project team.
 - C. Co-locate users with developers.
 - D. Only have meetings as needed, not on a regular basis.

Project management software helps you develop a _____, which serves as a basis for creating Gantt charts, assigning resources, and allocating costs.

- 232
- A. project plan
 - B. schedule
 - C. WBS
 - D. Deliverable

Which of the following processes involves determining the policies, procedures, and documentation that will be used for planning, executing, and controlling the project schedule?

- 233
- A. planning schedule management
 - B. defining activities
 - C. estimating activity resources
 - D. activity sequencing

Predecessors, successors, logical relationships, leads and lags, resource requirements, constraints, imposed dates, and assumptions are all examples of

- 234
- A. items in an activity list
 - B. items on a Gantt chart
 - C. milestone attributes
 - D. activity attributes

You cannot start editing a technical report until someone else completes the first draft. What type of dependency does this represent?

- 235
- A. finish-to-start
 - B. start-to-start
 - C. finish-to-finish
 - D. start-to-finish

Which of the following statements is false?

- 236
- A. A resource breakdown structure is a hierarchical structure that identifies the project's resources by category and type.
 - B. Duration and effort are synonymous terms.
 - C. A three-point estimate includes an optimistic, most likely, and pessimistic estimate.
 - D. A Gantt chart is a common tool for displaying project schedule information.

What symbol on a Gantt chart represents a slipped milestone?

- 237
- A. a black arrow
 - B. a white arrow
 - C. a black diamond
 - D. a white diamond

What type of diagram shows planned and actual project schedule information?

238

- A. a network diagram
- B. a Gantt chart
- C. a Tracking Gantt chart
- D. a milestone chart

_____ is a network diagramming technique used to predict total project duration.

- A. PERT
- B. A Gantt chart
- C. Critical path method
- D. Crashing

Which of the following statements is false?

- A. Growing grass was on the critical path for a large theme park project.
- B. The critical path is the series of activities that determine the earliest time by which a project can be completed.
- C. A forward pass through a project network diagram determines the early start and early finish dates for each activity.
- D. Fast tracking is a technique for making cost and schedule trade-offs to obtain the greatest amount of schedule compression for the least incremental cost.

_____ is a method of scheduling that considers limited resources when creating a project schedule and includes buffers to protect the project completion date.

- A. Parkinson's Law
- B. Murphy's Law
- C. Critical path analysis
- D. Critical chain scheduling

_____ is the degree to which a set of inherent characteristics fulfills requirements.

- A. Quality
- B. Conformance to requirements
- C. Fitness for use
- D. Reliability

What is the purpose of project quality management?

- A. to produce the highest-quality products and services possible
- B. to ensure that appropriate quality standards are met
- C. to ensure that the project will satisfy the needs for which it was undertaken
- D. all of the above

What does the term kaizen mean?

- A. minimize waste
- B. maximize value
- C. do it right the first time
- D. improvement

What tool can you use to determine whether a process is in control or out of control?

- A. a cause-and-effect diagram
- B. a control chart
- C. a run chart
- D. a control panel diagram

Six Sigma's target for perfection is the achievement of no more than defects, errors, or mistakes per million opportunities.

- A. 6
- B. 9
- C. 3.4
- D. 1

What is the preferred order for performing testing on software projects?

- A. unit testing, integration testing, system testing, user acceptance testing
- B. unit testing, system testing, integration testing, user acceptance testing
- C. unit testing, system testing, user acceptance testing, integration testing
- D. unit testing, integration testing, user acceptance testing, system testing

PMI's OPM3 is an example of a model or framework for helping organizations improve their processes and systems.

- A. benchmarking
- B. Six Sigma
- C. maturity
- D. quality

Which of the following is not part of project human resource management?

- A. resource estimating
- B. acquiring the project team
- C. developing the project team
- D. managing the project team

A maps the work of a project, as described in the WBS, to the people responsible for performing the work.

- A. project organizational chart
- B. work definition and assignment process
- C. resource histogram

D. responsibility assignment matrix

A staffing management plan often includes a resource , which is a column chart that shows the number of resources assigned to the project over time.

- 251
A. chart
B. graph
C. histogram
D. timeline

What technique can you use to resolve resource conflicts by delaying tasks?

- 252
A. resource loading
B. resource leveling
C. critical path analysis
D. overallocation

What are the five stages in Tuckman's model of team development, in chronological order?

- 253
A. forming, storming, norming, performing, and adjourning
B. storming, forming, norming, performing, and adjourning
C. norming, forming, storming, performing, and adjourning
D. forming, storming, performing, norming, and adjourning

Which of the following is not a tool or technique for managing project teams?

- 254
A. observation and conversation
B. project performance appraisals
C. conflict management
D. Social Styles Profile

What do many experts agree is the greatest threat to the success of any project?

- 255
A. lack of proper funding
B. a failure to communicate
C. poor listening skills
D. inadequate staffing

Which of the following is not a process in project communications management?

- 256
A. planning communications management
B. controlling communications
C. managing communications
D. managing stakeholders

What strategy can a project manager use to deliver bad news?

- 257
A. Tell a joke first.
B. Tell senior management as soon as possible so they can develop alternatives and recommendations.
C. Ask the project champion to deliver the news.
D. Set the stage by putting the news into context, emphasizing the impact on the bottom line.

If you add three more people to a project team of five, how many more communication channels will you add?

- 258
A. 2
B. 12
C. 15
D. 18

A(n) _____ report describes where a project stands at a specific point in time.

- 259
A. status
B. performance
C. forecast
D. earned value

What term describes information that is sent to recipients at their request via Web sites, bulletin boards, e-learning, knowledge repositories like blogs, and other means?

- 260
A. push communications
B. pull communications
C. interactive communications
D. customer communications

Which of the following is not a recommendation for improving project communications?

- 261
A. You cannot overcommunicate.
B. Project managers and their teams should take time to develop their communications skills.
C. Do not use facilitators or experts outside of the project team to communicate important information.
D. Use templates to help prepare project documents.

A _____ report is a reflective statement that documents important information learned from working on the project.

- 262
- A. final project
 - B. lessons-learned
 - C. project archive
 - D. progress

_____ is an uncertainty that can have a negative or positive effect on meeting project objectives.

- 263
- A. Risk utility
 - B. Risk tolerance
 - C. Risk management
 - D. Risk

Which risk management process involves prioritizing risks based on their probability and impact of occurrence?

- 264
- A. planning risk management
 - B. identifying risks
 - C. performing qualitative risk analysis
 - D. performing quantitative risk analysis

Your project involves using a new release of a common software application, but if that release is not available, your team has _____ plans to use the current release.

- 265
- A. contingency
 - B. fallback
 - C. reserve
 - D. mitigation

Which risk identification tool involves deriving a consensus among a panel of experts by using anonymous input regarding future events?

- 266
- A. risk breakdown structure
 - B. brainstorming
 - C. interviewing
 - D. Delphi technique

A risk _____ is a document that contains results of various risk management processes, and is often displayed in a table or spreadsheet format.

- 267
- A. management plan
 - B. register
 - C. breakdown structure
 - D. probability/impact matrix

_____ are indicators or symptoms of actual risk events, such as a cost overrun on early activities being a symptom of poor cost estimates.

- 268
- A. Probabilities
 - B. Impacts
 - C. Watch list items
 - D. Triggers

Suppose there is a 30% chance that you will lose \$10,000 and a 70% chance that you will earn \$100,000 on a p project. What is the project's estimated monetary value?

- 269
- A. \$30,000
 - B. \$70,000
 - C. \$67,000
 - D. ± \$67,000

_____ is a quantitative risk analysis tool that uses a model of a system to analyze its expected behavior or performance.

- 270
- A. Simulation
 - B. Sensitivity analysis
 - C. Monte Carlo analysis
 - D. EMV

Your project team has decided not to use an upcoming release of software because it might cause your schedule to slip. Which negative risk response strategy are you using?

- 271
- A. avoidance
 - B. acceptance
 - C. transference
 - D. mitigation

What is the top reason for global outsourcing of software services?

- 272
- A. cost reduction
 - B. a shortage of qualified personnel
 - C. decreasing time to market
 - D. increasing revenues

Your organization hired a specialist in a certain field to provide training for a short period of time. Which reason for outsourcing would this example fall under?

- 273
- A. reducing costs
 - B. allowing the client organization to focus on its core business
 - C. accessing skills and technologies
 - D. providing flexibility

In which project procurement management process is an RFP often written?

- 274
- A. planning procurement management
 - B. conducting procurements
 - C. controlling procurements
 - D. selecting sellers

Which type of contract has the least amount of risk for the buyer?

- 275
- A. fixed-price
 - B. cost plus incentive fee (CPIF)
 - C. time and material
 - D. cost plus fixed fee (CPFF)

The _____ is the point at which the contractor assumes total responsibility for each additional dollar of contract cost.

- 276
- A. breakeven point
 - B. Share Ratio Point
 - C. Point of Reconciliation
 - D. Point of Total Assumption

If your college or university wanted to get information from potential sellers for providing a new sports stadium, what type of document would be required of the potential sellers?

- 277
- A. RFP
 - B. RFQ
 - C. proposal
 - D. quote

A proposal evaluation sheet is an example of a(n) _____

- 278
- A. RFP
 - B. NPV analysis
 - C. earned value analysis
 - D. weighted scoring model

_____ is a term used to describe various procurement functions that are now done electronically.

- 279
- A. E-procurement
 - B. eBay
 - C. E-commerce
 - D. EMV

How many stages in project management ?

- 280
- A. 3
 - B. 4
 - C. 5
 - D. 6

Which stage that Risk Management belongs to ?

- 281
- A. Performance and Control
 - B. Conception and Initiation
 - C. Launch or Execution
 - D. Definition and Planning

How many categories of software projects ?

- 282
- A. 4
 - B. 5
 - C. 6
 - D. 7

How many software project tasks?

- 283
- A. 3
 - B. 4
 - C. 5
 - D. 6

How many software project challenges ?

- 284
- A. 5

- B. 6
C. 7
D. 8

How many impact of challenges on software project ?

- 285
A. 3
B. 4
C. 5
D. 6

How many requirement for a successful software project manager ?

- 286
A. 4
B. 5
C. 6
D. 7

How many software product implementation initiation tasks ?

- 287
A. 5
B. 6
C. 7
D. 8

What is the main advantage of project management ?

- 288
A. To help you manage your projects effectively, enable you to resolve problems more quickly
B. To improve productivity and quality of work
C. To improve your chances of achieving the desired result
D. To stay on schedule and keep costs and resources to budget

What is the main advantage of project management ?

- A. To help you manage your projects effectively, enable you to resolve problems more quickly
B. To improve productivity and quality of work
C. To improve your chances of achieving the desired result
D. To stay on schedule and keep costs and resources to budget

Depending on the software lifecycle chosen, the project plan may vary

- 289
A. True
B. False

In project planning, the main tasks that are to be planned are _____

- 290
A. Project management processes
B. Software lifecycle processes
C. Software engineering processes
D. Software development processes

How many processes in software engineering ?

- 291
A. 2
B. 3
C. 4
D. 5

How many stages in a software development lifecycle ?

- 292
A. 3
B. 4
C. 5
D. 6

How many stages in a software configuration management ?

- 293
A. 3
B. 4
C. 5
D. 6

Which is the third stage of Waterfall Model ?

- 294
A. Coding
B. Design
C. Testing
D. Specification

What is the advantage of structuring software development into a defined process model ?

295

- A. It sharpens focus
- B. It provides progress visibility
- C. It supports planning and control
- D. All is correct

What does KPI stand for ?

296

- A. Key Performance Index
- B. Key Performance Industry
- C. Key Product Index
- D. Key Progress Industry

How many primary phases in cost management ?

297

- A. 2
- B. 3
- C. 4
- D. 5

Which is not a primary phase in cost management ?

298

- A. Cost estimating
- B. Cost control
- C. Cost budgeting
- D. Cost validating

Costs or benefits that an organization can easily measure in dollars :

299

- A. Tangible costs
- B. Intangible costs
- C. Direct costs
- D. Indirect costs

Learning curve theory states that _____

300

- A. Less items are produced repetitively, the unit cost of those items decreases in a regular pattern as less units are produced
- B. Many items are produced repetitively, the unit cost of those items decreases in a regular pattern as more units are produced
- C. Many items are produced repetitively, the unit cost of those items increases in a regular pattern as more units are produced
- D. Less items are produced repetitively, the unit cost of those items increases in a regular pattern as more units are produced

What does PERT stand for ?

301

- A. Program Evaluation and Review Technique
- B. Product Evaluation and Review Technique
- C. Product Estimation and Revision Technique
- D. Process Evaluation and Review Technique

What does COCOMO stand for ?

302

- A. Contrast Compare Mapping
- B. Constructive Cost Management
- C. Conflict Compare Manufacturing
- D. Constructive Cost Model

What does WBS stand for ?

303

- A. Work Broken Strategy
- B. Work Breakdown Structure
- C. Work Broken Structure
- D. Work Behavior Strategy

Project planning output is :

304

- A. Top-down planning
- B. Bottom up planning
- C. Waterfall planning
- D. Iterative planning

What does EVM stand for ?

305

- A. Exercise Vector Modification
- B. Earned Victory Movement
- C. Estimated Value Management
- D. Earned Value Management

How many levels in Project Portfolio Management ?

306

- A. 3
- B. 4
- C. 5
- D. 6

What is the correct formula to calculate CPI ?

- A. $CPI = EV/AC$
- B. $CPI = AC/EV$
- C. $CPI = EV/PV$
- D. $CPI = EV-AC$

307

What is the different name of PERT technique ?

308

- A. Parametric Modelling
- B. Bottom-up Estimating
- C. Three Point Estimates
- D. Analogous Estimating

Which is not an input for bottom-up approach of project planning ?

309

- A. Requirements
- B. Project cost
- C. Project scope
- D. Software engineering

Which is not an output for bottom-up approach of project planning ?

310

- A. Defect prevention
- B. Service level agreements
- C. WBS structure
- D. Resource allocation

What does CPM stand for ?

311

- A. Critical Path Method
- B. Crucial Permission Management
- C. Critical Permission Method
- D. Capability Product Management

_____ uses project characteristics in a mathematical model to estimate projects costs

312

- A. Parametric modelling
- B. Three point estimates
- C. Activity based costing
- D. Top-down estimates

Which is not a result of parametric modelling ?

313

- A. Risk profile
- B. Lifecycle costs
- C. Cost by activity
- D. GUI metrics

Which is not 1 of 3 point estimates ?

314

- A. Complexity
- B. Optimistic
- C. Realistic
- D. Pessimistic

What is the formula to calculate profit ?

315

- A. Profit = Revenue + Expense
- B. Profit = Revenue - Expense
- C. Profit = Expense - Revenue
- D. Profit = Expense / Revenue

In the case of product development by software vendors, the project management is a bottom-up approach, and in the case of custom software development, it is a top-down approach.

316

- A. True
- B. False

How many steps to be performed in project planning ?

317

- A. 4
- B. 5
- C. 6

D. 7

Which is not a step in project planning ?

- 3 18
A. Cost estimates
B. Scheduling
C. Milestone identification
D. Time estimates

WBS is used to break your project down into lower and lower levels of detail

- 3 19
A. True
B. False

_____ are significant steps towards the completion of a project

- 3 20
A. Gantt Charts
B. PERTs
C. Activities
D. Milestones

How many forms of activity network were developed in activity sequencing ?

- 3 21
A. 2
B. 3
C. 4
D. 5

CPM is used to find out the shortest route through the project network

- 3 22
A. True
B. False

_____ is a technique that can help you when your project is not all clear

- 3 23
A. Rolling wave planning
B. Re-planning
C. Scheduling
D. Activity sequencing

_____ diagrams represent the tasks that you are performing in your project as nodes connected by arrows

- 3 24
A. Activity-on-the-arrow
B. Activity-on-the-node
C. Activity-on-the-task
D. Activity-on-the-network

To identify milestones, you should focus on your projects' _____ and identify any key stages that appear to be significant breakthroughs in your project's progress

- 3 25
A. CPI
B. PERT
C. CPM
D. WBS

_____ uses the actual cost of a previous, similar project as the basis for estimating the cost of the current project

- 3 26
A. Top-down estimates
B. Bottom-up estimates
C. Parametric estimates
D. Three point estimates

Risks can be divided into _____ categories

- 3 27
A. 2
B. 3
C. 4
D. 5

If a risk to the project arises due to an aspect being dealt with by the project team, then it is an _____

- 3 28
A. Internal risk
B. External risk
C. None is correct

How many major risk types ?

- 3 29
A. 2
B. 3

- C. 4
D. 5

Which is not a major risk type ?

- 330
A. Resource risk
B. Budget risk
C. Scope risk
D. Time risk

Meeting quality requirements is a big risk for all projects

- 331
A. True
B. False

Due to the time management error, the requirements or design, or the construction may get injected with defects

- 332
A. True
B. False

How many major causes of risks ?

- 333
A. 7
B. 8
C. 9
D. 10

_____ are the most costly resources in software projects

- 334
A. Team members
B. Facilities and equipment
C. Supplies and material
D. Services

To deal with quality risks, the best policy is to have a check for quality integrated in the project schedule itself

- 335
A. True
B. False

Almost projects can be executed 100% as per the project plan

- 336
A. True
B. False

Using a Waterfall model to execute your project is a big risk

- 337
A. True
B. False

Wrong budget estimate of a task

- 338
A. Medium probability - Medium impact
B. High probability - High impact
C. High probability - Medium impact
D. Medium probability - High impact

Which SDLC model is well-suited for projects that have low-risks in user interface and performance but high-risks in terms of schedule and control ?

- 339
A. Prototyping
B. Agile
C. Waterfall model
D. Incremental

Which SDLC model is most suitable for the systems in which requirements are generally clear and system can be divided into many intermediate deliverables ?

- 340
A. Prototyping
B. Agile
C. Waterfall model
D. Incremental

Which SDLC model is useful in projects that have high risk in term of user interface design and uncertainties in user requirements ?

- 341
A. Prototyping
B. Agile
C. Waterfall model
D. Incremental

Taking many effort and commitment to develop something that you are going to discard. This is one of the disadvantage of:

- 342
- A. Agile
 - B. Waterfall model
 - C. Incremental
 - D. Prototyping

The main difference between Waterfall model and stage-wise model is that it is allowed unlimited iteration between stages

- 343
- A. True
 - B. False

It often does not match the user's requirements – It is rejected or require extensive development. This is one of the disadvantage of:

- 344
- A. Agile
 - B. Waterfall model
 - C. Build-and-Fix model
 - D. Prototyping

Which SDLC model refers to approach to software development that reduce risk by delivering software systems in short bursts or releases ?

- 345
- A. Agile
 - B. Waterfall model
 - C. Incremental
 - D. Throw-away prototyping

For student projects, a comprehensive configuration management system is unnecessary

- 346
- A. True
 - B. False

An activity network can be used to identify the order in which you should perform that work

- 347
- A. True
 - B. False

The number of milestones that you will identify for your project is unique regardless of project's size

- 348
- A. True
 - B. False

Many organizations assert that using project management provides advantages, such as _____

- 349
- A. lower profit margins
 - B. lower costs
 - C. less internal coordination
 - D. lower worker morale

Because a project requires resources, often from various areas, many projects cross _____ or other boundaries to achieve their unique purposes.

- 350
- A. financial
 - B. spatial
 - C. departmental
 - D. technological

The project _____ usually provides the direction and funding for the project.

- 351
- A. leader
 - B. sponsor
 - C. manager
 - D. director

The limitations of scope, time, and cost goals are sometimes referred to as the _____

- 352
- A. double bind
 - B. triple constraint
 - C. double constraint
 - D. double obstacle

_____ are people involved in or affected by project activities and include the project sponsor, project team, support staff, customers, users, suppliers, and even opponents of project.

- 353
- A. Managers
 - B. Stakeholders
 - C. Directors
 - D. Citizens

Project _____ management involves defining and managing all the work required to complete the project successfully.

354

- A. scope
- B. quality
- C. time
- D. cost

Project ____ management ensures that the project will satisfy the stated or implied needs for which it was undertaken.

355

- A. cost
- B. time
- C. scope
- D. quality

Project ____ management is concerned with making effective use of the people involved with the project.

356

- A. human resource
- B. risk
- C. communications
- D. procurement

Project ____ management involves generating, collecting, disseminating, and storing project information.

357

- A. risk
- B. procurement
- C. communications
- D. resource

Project ____ management is an overarching function that affects and is affected by all of the other knowledge areas.

358

- A. cost
- B. quality
- C. integration
- D. time

What works on one project may not work on another, so it is essential for project managers to continue to develop their knowledge and ____ in managing projects.

359

- A. time
- B. resources
- C. funding
- D. skills

Which of the following factors contributes most to the success of software projects?

360

- A. Executive support
- B. User involvement
- C. Experienced project manager
- D. Clear business objectives

____ project management software integrates information from multiple projects to show the status of active, approved, and future projects across an entire organization.

361

- A. Investment
- B. Active
- C. Enterprise
- D. Budget

A ____ can have many different job descriptions, which can vary tremendously based on the organization and the project.

362

- A. project supervisor
- B. project manager
- C. job coordinator
- D. project coordinator

A Gantt chart is a standard format for displaying project schedule information by listing project activities and their corresponding start and finish dates in a ____ format.

363

- A. pie chart
- B. line graph
- C. bar graph
- D. calendar

Many organizations are now using enterprise or project ____ management software to help manage projects.

364

- A. path
- B. portfolio
- C. institute
- D. office

____ tools are often recommended for small projects and single users.

365

- A. Low-end
- B. Mid Range

- C. High-end
D. Expensive

Most common cause of conflicts in a project is:

- 366
A. Schedules
B. Technical opinions
C. Personal Issues
D. Project priorities

Project Quality Management _____

- 367
A. Must meet management objectives
B. Applies to all projects, regardless of deliverables
C. Applies only to specific areas of the project
D. Is necessary only when stakeholders agree on quality characteristics

Who among the following is responsible for performing the scope validation?

- 368
A. Project Manager
B. Senior Management
C. The quality team
D. The customer

PERT is used for planning of your project. A task has pessimistic estimate of 24 days, most likely estimate of 15 days and optimistic estimate of 12 days. What is the mean value?

- 369
A. 18 days
B. 25.5 days
C. 15 days
D. 16 days

Which of the following is not true about analogous estimating?

- 370
A. Estimate is based on past projects.
B. It is not very accurate.
C. It uses bottom-up approach
D. It is a form of an expert judgment

Which of these is an example of processes in the closing process group?

- 371
A. Project Closure
B. Scope Closure
C. Close Project or phase
D. Scope Validation

Which of the following is not true about the WBS report?

- 372
A. WBS should focus on the activities that must be performed in the project and should not focus on the deliverables.
B. The project team must be involved in developing the WBS.
C. As a rule of thumb, each activity of WBS should take less than 80 hours.
D. WBS is usually represented in a hierarchical fashion.

373
Which process identifies the project manager?

- A. Develop Project Management Plan
B. Develop Project Charter
C. Define Scope
D. Select Project Process

374
Which of the following indicate that the project is doing well?

- A. A negative Cost Variance
B. An SPI of less than one
C. A negative schedule variance
D. A CPI of greater than one.

In which process of Project Risk Management knowledge area are numeric values assigned to probabilities and impact of risks?

- 375
A. Perform Qualitative Risk Analysis
B. Perform Quantitative Risk Analysis
C. Perform Numeric Risk Analysis
D. Plan Risk Response

376
Which of the following is true statement about risks?

- A. If a risk is identified in a risk response plan, then that means that risk has already happened.
B. Once a risk has happened, you refer to the risk management plan to determine what action needs to be taken.
C. A risk that was not planned but has happened is called a trigger.
D. Risk identification happens in all the phases of the project.

377
You are the Project Manager of the XYZ project. You want to find the planned expenses for next month. Which document do you need to refer to?

- A. Cost Management Plan
B. Cost Baseline
C. Cost Control Plan

- D. Cost Variance report

Which symbol is used to represent for the milestone in network diagram?

- 378
A. Rectangle
B. Circle
C. Square
D. Diamond

There maybe more than 1 critical path in the project network diagram

- 379
A. True
B. False

What is the most important information in a Gantt Chart?

- 380
A. Duration
B. Start date
C. End date
D. Activity detail

A _____ plan will be constructed in rolling wave planning?

- 381
A. Detailed
B. Skeleton
C. Summary
D. General

Critical path is the _____ route in the project network

- 382
A. Longest
B. Average
C. Shortest
D. None is correct

Arrows in network diagram are bi-directional

- 383
A. True
B. False

Critical path in diagram is represented by _____ arrow

- 384
A. Bold
B. Dashed
C. Double
D. Curved

The value of top right corner at each rectangle in an activity network diagram is _____

- 385
A. Start date
B. End date
C. Duration
D. Activity name

Which of the following is not one of the guiding principles of software project scheduling?

- 386
A. compartmentalization
B. market assessment
C. time allocation
D. effort validation

For purposes of determining the major engineering tasks and distributing them on the project timeline, the project manager should assume that the process model used is _____

- 387
A. linear
B. sequential
C. iterative evolutionary
D. all is correct

Effective software project management focuses on _____

- 388
A. people, performance, payoff, product
B. people, product, performance, process
C. people, product, process, project
D. people, process, payoff, product

Which of these software characteristics are used to determine the scope of a software project?

- 389
A. context, lines of code, function

- B. context, function, communication requirements
C. information objectives, function, performance
D. communications requirements, performance, information objectives

How does a software project manager need to act to minimize the risk of software failure?

390

- A. Double the project team size
B. Request a large budget
C. Start on the right foot
D. Track progress
E. Both start and track

The first step in project planning is to _____

391

- A. Determine the budget
B. Select a team organization model
C. Determine the project constraints
D. Establish the objectives and scope

The objective of software project planning is to _____

392

- 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

Software feasibility is based on _____

393

- A. Business and marketing concerns
B. Scope, constraints, markets
C. Technology, finance, time, resources
D. Technical prowess of the developers

The number of people required for a software project is determined _____

394

- A. After an estimate of the development effort is made
B. By the size of the project budget
C. From an assessment of the technical complexity of the system
D. All of them

The size estimate for a software product to be built must be based on a direct measure like LOC

395

- A. True
B. False

LOC-based estimation techniques require problem decomposition based on

396

- A. Information domain values
B. Project schedule
C. Software functions
D. Process activities

In Agile software development estimation techniques focus on the time required to complete each

397

- A. increment
B. scenario
C. task
D. use-case

A risk referent level is a risk component value (performance, cost, support, schedule) or combination of values that cause a project to be terminated

398

- A. True
B. False

An effective risk management plan will need to address which of the following issues?

399

- A. Risk avoidance
B. Risk monitoring
C. Contingency planning
D. All of them

Software risk always involves two characteristics

400

- A. Fire fighting and crisis management
B. Known and unknown risks
C. Uncertainty and loss
D. Staffing and budget

Which are categories of risks?

- 401
- A. Business risks, personnel risks, budget risks
 - B. Project risks, technical risks, business risks
 - C. Planning risks, technical risks, personnel risks
 - D. Management risks, technical risks, design risks

Software risk impact assessment should focus on consequences affecting

- 402
- A. Planning, resources, cost, schedule
 - B. Marketability, cost, personnel
 - C. Business, technology, process
 - D. Performance, support, cost, schedule

Risk projection attempts to rate each risk in two ways

- 403
- A. Likelihood and cost
 - B. Likelihood and impact
 - C. Likelihood and consequences
 - D. Likelihood and exposure

The reason for refining risks is to break them into smaller units having different consequences

- 404
- A. True
 - B. False

Effective risk management plan needs to address which of these issues?

- 405
- A. Risk avoidance
 - B. Risk monitoring
 - C. Contingency planning
 - D. All of them

Risk monitoring involves watching the risk indicators defined for the project and not determining the effectiveness of the risk mitigation steps themselves

- 406
- A. True
 - B. False

Risk information sheets (RIS) are never an acceptable substitute for a full-risk mitigation, monitoring and management (RMMM) plan

- 407
- A. True
 - B. False

How many approaches to quality control?

- 408
- A. 2
 - B. 3
 - C. 4
 - D. 5

Standards are the key to the effective quality management

- 409
- A. True
 - B. False

“Cyclomatic complexity” metric belongs to which attributes?

- 410
- A. Portability and Usability
 - B. Maintainability and Portability
 - C. Maintainability and Reliability
 - D. Usability and Reliability

“Number of procedure parameters” metric belongs to which attributes?

- 411
- A. Portability and Usability
 - B. Maintainability and Portability
 - C. Maintainability and Reliability
 - D. Usability and Reliability

“Number of error message” metric belongs to which attributes?

- 412
- A. Portability and Usability
 - B. Maintainability and Portability
 - C. Maintainability and Reliability
 - D. Usability and Reliability

“Length of user manual” metric belongs to which attributes?

- 413
- A. Maintainability and Usability
 - B. Maintainability and Portability
 - C. Portability and Usability
 - D. Usability and Reliability

Dynamic metrics are closely related to software quality attributes

- 414
- A. True
 - B. False

Implementer is one of the _____ roles

- 415
- A. Action-oriented
 - B. People-oriented
 - C. Thought-oriented
 - D. None of them

Plant is one of the _____ roles

- 416
- A. Action-oriented
 - B. People-oriented
 - C. Thought-oriented
 - D. None of them

Resource investigator is one of the _____ roles

- 417
- A. Action-oriented
 - B. People-oriented
 - C. Thought-oriented
 - D. None of them

A project plan includes details like resource allocation to tasks, task details,....

- 418
- A. True
 - B. False

Schedule optimization can be done during the execution

- 419
- A. True
 - B. False

What is the disadvantage of the analogous estimating?

- 420
- A. Risk to gain bigger estimation without justification
 - B. May require considerable experience for complete, especially for cases with uncertainty
 - C. Count only similarities, not differences in the comparing projects
 - D. All of them

How to calculate Cost Variance (CV)?

- 421
- A. $CV = EV/PV$
 - B. $CV = EV-PV$
 - C. $CV = EV-AC$
 - D. $CV = EV/AC$

Which term refers to the money it takes to sell a product after it is made?

- 422
- A. Gross income
 - B. Expense
 - C. Revenue
 - D. Cost

Which term refers to the amount that vendor received for conducting a project?

- 423
- A. Net income
 - B. Gross profit
 - C. Expense
 - D. Revenue

Which criterion makes you increase pessimistic estimation?

- 424
- A. Time constraints specified by customer
 - B. Risk identified during planning
 - C. Funding constraints, determined by sponsor
 - D. Quality requirements provided by stakeholders

The project budget _____

- 425
- A. Can change through the change management process
 - B. There is always deviation between budget and actual cost, what needs to be corrected through the change management
 - C. Is changing no matter what
 - D. Never change

Why the cost of quality should be added to project costs?

- 426
- A. Because the cost of quality is a contingency part of budget
 - B. It may take considerable time and efforts to provide accurate estimation
 - C. Because the cost of quality is a part of management reserve
 - D. Such costs should be assumed in the project charter

?

A project manager concerns about increasing of productivity and saving money.

- 427
- A. Policies on estimating, processes, templates, company culture and existing systems
 - B. Scope baseline
 - C. Human resources plan
 - D. Project schedule

In which of the following phases of the project will most of the money be spent?

- 428
- A. Initiating
 - B. Planning
 - C. Executing
 - D. Closing

The highest element in the hierarchical breakdown of the WBS is _____

- 429
- A. Project
 - B. Major deliverable
 - C. A work package
 - D. Framework activity

The duration of the schedule activity is affected by all of the following except _____

- 430
- A. The estimated activity resource requirements.
 - B. The resources assigned to the schedule
 - C. The availability of the resources assigned to the schedule activity.
 - D. The use of Gantt chart or a network diagram

A schedule compression technique to determine how to obtain the greatest amount of compression for the least incremental cost is called _____

- 431
- A. Crashing
 - B. PERT
 - C. ADM or PDM
 - D. Fast Tracking

The critical path is established by calculating the following dates:

- 432
- A. start-to-start, start to finish, finish to start, finish to start.
 - B. early start, early finish, late start, late finish
 - C. predecessor to successor, predecessor to predecessor, successor to successor
 - D. None of them

The project time management processes include:

- 433
- A. Define activity, sequence activity, execute activity, estimate activity duration
 - B. Define activity, sequence activity, and estimate activity duration
 - C. Identify Activity, Execute Activity, Activity Results
 - D. All of them

The three-point estimates method for estimating activity duration from the single point, most-likely estimate method in that is used _____

- 434
- A. An average of the three estimated durations to estimate activity duration
 - B. Dummy activities to represent logic
 - C. Free float instead of total float in the schedule calculations
 - D. Bar charts instead of logic diagrams to portray the schedule

Analogous duration estimating is _____

- A. bottom-up estimating
- B. frequently used to estimate project duration when there is a limited amount of detailed info
- C. similar to multiple duration estimating
- D. deductive estimating

A dependency that requires that design be completed before manufacturing can start is an example of _____

- 436
- A. discretionary dependency
 - B. external dependency
 - C. mandatory dependency

- D. scope dependency

Which of the following are generally illustrated better by Gantt Charts than Network Diagrams?

- 437
A. logical relationships
B. critical paths
C. resource trade-off
D. progress or status

Which of the following is the best project management tool to use to determine the longest time the project will take?

- 438
A. WBS
B. Network Diagram
C. Gantt Chart
D. Project Charter

Which of the following is correct?

- 439
A. The critical path can change during project execution
B. There can be only one critical path
C. The network diagram will change every time the end date changes
D. A project can never have negative float

The slack of a task is determined by _____

- 440
A. Performing a Monte Carlo analysis
B. The waiting time between tasks
C. Lag
D. The amount of time the task can be delayed before it delays the critical path

If the project time and cost are not as important as the number of resources used each month, which of the following is the best thing to do?

- 441
A. Perform Monte Carlo analysis
B. Fast track the project
C. Perform resource leveling
D. Analyze the life cycle cost

Which estimating method uses one time estimate for each task?

- 442
A. PERT
B. CPM
C. Monte Carlo
D. Control charts

All of the following are true about the project scope statement except _____

- 443
A. It is an output of scope verification.
B. It describes, in detail, the project's deliverables and the work required to create those deliverables.
C. It provides a common understanding of the project scope among all stakeholders.
D. It describes the project's major objectives

What is WBS typically used for?

- 444
A. To organize and define the total scope
B. To identify the logical person to be project sponsor
C. To define the level of reporting the seller provides the buyer
D. As a record of when work elements are assigned to individuals

WBS numbering system allows project staff to _____

- 445
A. Systematically estimate costs of WBS elements
B. Provide project justification
C. Identify the level at which individual elements are found
D. Use it in project management software

A project manager may use _____ to make sure the team clearly knows what work is included in each of their tasks

- 446
A. a project scope of work
B. a project charter
C. a WBS dictionary
D. A risk response plan

Output from the estimate activity resources process includes _____

- 447
A. job descriptions
B. salary schedules
C. Identification and description of the types and quantities of resources required.
D. Analogous estimating

Which of the following is a key attribute of verifying scope?

- 448
- A. improved cost estimates
 - B. customer acceptance of project efforts
 - C. improved schedule estimates
 - D. improved project management information system

When should the scope be verified?

- 449
- A. at the end of the project
 - B. at the beginning of the project
 - C. at the beginning of each phase
 - D. during planning

A project plan should be realistic in order to be used to manage the project. Which of the following is the best method to achieve a realistic project plan?

- 450
- A. senior manager creates the project plan based on input from the project manager
 - B. function manager created the project plan based on input from the project manager
 - C. based on input from senior manager
 - D. based on input from the team

Which of the following is included in a project charter?

- 451
- A. Identification of risks
 - B. Task estimates
 - C. Detailed resource estimates
 - D. The business need for the project

During what phase of the life cycle is the project scope statement created?

- 452
- A. initiating
 - B. planning
 - C. executing
 - D. controlling

Which following statement is true about WBS?

- 453
- A. the WBS is another term for Gantt chart
 - B. each descending level of the WBS represents an increasing detailed definition of the project work
 - C. work not in the WBS us usually defined in the scope statement of the project
 - D. the WBS shows only the critical path activities

To complete the project fast, the project manager looks at the cost associated with crashing each task. The best approach to crashing would include looking at the _____

- 454
- A. Risk impact of crashing each task
 - B. Customer's opinion of what task to crash
 - C. Boss's opinion of what tasks to crash and in what order.
 - D. Project phase in which the task is due to occur

When would a milestone chart be used instead of a Gantt Chart?

- 455
- A. project planning
 - B. reporting to team members
 - C. reporting to management
 - D. risk analysis

How many software quality attributes?

- 456
- A. 13
 - B. 14
 - C. 15
 - D. 16

Quality management should be separated from project management to ensure independence

- 457
- A. True
 - B. False

Which statement is correct?

- 458
- A. Function (process) follows form (product)
 - B. Form (product) follows function (process)
 - C. All is correct
 - D. None is correct

A software property can not be measured

- 459
- A. True
- !

- B. False

Static metrics have an indirect relationship with quality attributes

- A. True
B. False

_____ is the ability to encourage by "push or pull" technical people to produce to their best ability.

- A. Motivation
B. Monitoring
C. Evaluating
D. None is correct

Inspections and tests are what kinds of quality costs?

- A. Prevention
B. Appraisal
C. Internal Failure
D. External Failure

Which of the following is responsible for the quality objective?

- A. Top level management
B. Middle level management
C. Frontline management
D. All of them

Which of the following is not a core step of Six Sigma?

- A. Analyze
B. Measure
C. Define
D. Control

Which are the Mandatory Quality Procedures?

- A. Control of records
B. Control of documents
C. Control of Production Equipment, tools and CNC programs
D. All of them

What should a project manager do or follow to ensure clear boundaries for project completion?

- A. Scope verification
B. Scope definition
C. Completing scope statement
D. Risk management plan

The process mapping is a _____ diagram

- A. Workflow
B. Audit
C. Data flow
D. Circular

Which metric is related to the software maintenance?

- A. Process
B. Product
C. Software
D. Development

Overall approach to influence and determine the level of quality achieved in a software product:

- A. Program/Project Manager
B. Software Quality Program
C. Software Quality Manager
D. Software Quality Evaluation

_____ refers to quantitative evaluation

- A. Software
B. Operation
C. Assessment
D. Measurement

Planned progress is presented by _____ line in diagram

- 471
- A. solid
 - B. dashed
 - C. dotted
 - D. None is correct

How many filters must be used to process the raw project data?

- 472 ?
- A. 4
 - B. 5
 - C. 6
 - D. 7

Which of the following is not project management goal?

- 473
- A. Keeping overall costs within budget.
 - B. Delivering the software to the customer at the agreed time.
 - C. Maintaining a happy and well-functioning development team.
 - D. Avoiding customer complaints.

Which of the following is not considered as a risk in project management?

- 474
- A. Specification delays
 - B. Product competition
 - C. Testing
 - D. Staff turnover

Identify the sub-process of process improvement:

- 475
- A. Process introduction
 - B. Process analysis
 - C. De-processification
 - D. Process distribution

Choose an internal software quality from given below:

- 476
- A. scalability
 - B. usability
 - C. reusability
 - D. reliability

Which one of the following is not a fundamental activity for software processes in software engineering ?

- 477
- A. Software Verification
 - B. Software Validation
 - C. Software design and implementation
 - D. Software specification

Arrange the following steps to form a basic/general Engineering Process Model: Test (1), Design (2), Install (3), Specification (4), Manufacture (5), Maintain (6)

- 478
- A. 2, 4, 5, 1, 6, 3
 - B. 4, 2, 5, 1, 3, 6
 - C. 2, 4, 5, 1, 3, 6
 - D. 4, 2, 5, 1, 6, 3

Software Configuration Management can be administered in several ways. These include:

- 479
- A. A single software configuration management team for the whole organization
 - B. A separate configuration management team for each project
 - C. Software Configuration Management distributed among the project members
 - D. All of them

The best way to test the Software Project Management Plan (SPMP) is by _____

- 480
- A. Prototyping
 - B. Inspection
 - C. Compilation
 - D. Debugging

Internal costs include _____

- 481
- A. Developers salaries
 - B. Managers and support personnel salaries
 - C. The cost of overheads such as utilities, rent and senior managers
 - D. Materials (such as manuals) and services such as travel

The COCOMO model takes into account different approaches to software development, reuse, etc.

- 482
- A. True

483 B. False

Which of the following states that work expands to fill the time available?

- A. CASE tools
- B. Pricing to win
- C. Parkinson's Law
- D. Expert judgement

484 A _____ is developed using historical cost information that relates some software metric to the project cost.

- A. Algorithmic cost modelling
- B. Expert judgement
- C. Estimation by analogy
- D. Parkinson's Law

485 Which of the following costs is not part of the total effort cost?

- A. Costs of networking and communications
- B. Costs of providing heating and lighting office space
- C. Costs of lunch time food
- D. Costs of support staff

486 Requirements Management is a prerequisite for Quality-Oriented Development.

- A. True
- B. False

487 Which of the following is the process of assembling program components, data, and libraries, and then compiling and linking these to create an executable system?

- A. System building
- B. Release management
- C. Change management
- D. Version management

488 Which model assumes that systems are created from reusable components, scripting or database programming?

- A. An application-composition model
- B. A post-architecture model
- C. A reuse model
- D. An early design model

489 Which model is used during early stages of the system design after the requirements have been established?

- A. An application-composition model
- B. A post-architecture model
- C. A reuse model
- D. An early design model

490 Which model is used to compute the effort required to integrate reusable components or program code that is automatically generated by design or program translation tools?

- A. An application-composition model
- B. A post-architecture model
- C. A reuse model
- D. An early design model

491 In the classical chief programmer team approach, the team member responsible for maintaining the detailed design and coding is _____

- A. The chief programmer
- B. The programming secretary
- C. A specialized function that exists outside 'the team'
- D. The individual coder (i.e. programmer)

492 Software Science bases its estimation of the size of a product on _____

- A. Files (Fi), Flows (Fl) and Processes (Pr)
- B. Lines of Code (LOC)
- C. Function Points (FP)
- D. Operands and operators

493 Work that continues throughout the project and does not relate to any specific phase of software development is termed a(n) _____

- A. Milestone
- B. Project function
- C. Task
- D. Baseline

What is related to the overall functionality of the delivered software?

- 494
- A. Function-related metrics
 - B. Product-related metrics
 - C. Size-related metrics
 - D. None of the mentioned

"Over 30% of all software projects are cancelled before completion and over 70% of the remainder fail to deliver expected features". What must be the reason for such a situation?

- 495
- A. Poor change management
 - B. Poor requirements management
 - C. Poor quality control
 - D. All of the mentioned

A general statement of objectives is the major cause of failed software efforts.

- 496
- A. True
 - B. False

How many steps in project communication management process ?

- 497
- A. 3
 - B. 4
 - C. 5
 - D. 6

Which one is not a valid software quality metric ?

- 498
- A. Performance
 - B. Test failures
 - C. Static code analysis
 - D. None of them

?