# **Chapter 1: Introduction to Project Management**

## TRUE/FALSE

- 1. Until the 1980s, project management primarily focused on providing schedule and resource data to top management in the military and construction industries. (True)
- 2. One attribute that helps define a project is that a project has a unique purpose. (True)
- 3. Projects should go on indefinitely: they do not have a definite beginning, middle, or end. (False)
- 4. A program is a group of projects managed in a coordinated way to obtain benefits not available from managing them individually. (True)
- 5. A project never involves uncertainty. (False)
- 6. Questions about how long a project's schedule should be are related to the issue of the project's scope. (False)
- 7. Managing the triple constraint involves making trade-offs between scope, time, and cost goals for a project. (True)
- 8. Much of the knowledge needed to manage projects is not unique to the discipline of project management. (True)
- 9. Project managers must understand general management concepts such as organizational behavior, financial analysis, and planning techniques. (True)
- 10. The role of a project manager is different from the role of a corporate manager or executive. (True)
- 11. It would be very easy for someone with little or no background in information technology to become the project manager for a large information technology project. (False)
- 12. Project management is the silver bullet that guarantees success on all projects. (False)

| 13. | Determining the relationships among tasks is not essential in helping to improve project scheduling. (False)   |
|-----|--|
| 14. | The project manager's challenge is to understand the concepts of project management and determine what tools and techniques should be applied on specific projects and in specific organizations. (True)             |
| 15. | No matter what industry you work in, you need to understand the problems at hand if you are to manage projects successfully. (True)  |
| MOD | IFIED TRUE/FALSE   |
| 1.  | The U.S. spends \$2.3 trillion on projects every year, an amount equal to one- <u>tenth</u> of the nation's gross domestic product(False) quater   |
| 2.  | Resources include people, hardware, software, or other assetsTrue  |
| 3.  | A good project <u>officer</u> is crucial to a project's success because he or she works with the project sponsors, the project team, and the other people involved in a project to meet project goals(False) Manager |
| 4.  | The limitations of scope, time, and cost goals are sometimes referred to as the triple <a href="mailto:bind">bind</a> .  |
| 5.  | Because of the uncertain nature of projects and competition for resources, it is <u>rare</u> to complete many projects according to the exact scope, time, and cost plans originally predicted.                      |
| 6.  | The 2001 Standish Group report showed decided <u>decline</u> in information technology project management compared to the 1995 study(False) increase   |
| 7.  | The 2001 Standish Group report showed that time overruns significantly <u>increased</u> compared to the 1995 studyTrue   |
| 8.  | The 2001 Standish Group report showed that the <u>average</u> cost of a project has been more than cut in halfTrue   |
|     |  |

| 9.  | <ol> <li>Since projects are unique, <u>permanent</u>, and involve var<br/>integrating all the various activities required to compl<br/>temporary</li> </ol> |  |
|-----|---|--|
| 10. | D. The Manhattan Project cost almost \$2 billion in 1966.   | (False) 1946   |
| 11. | I. Today's project managers still use the Gantt chart as to information, but with the aid of computers, it is no lon(True)                                  |  |
| 12. | 2. New software makes basic tools, such as Gantt charts and available for anyone to update(Tru  |  |
| 13. | 3. Summary charts made with enterprise project manage things are going well, yellow to indicate that there are problems(False) red                          |  |
| 14. | <ol> <li>PMI developed a PMP code of professional <u>conduct</u> to<br/>certified project management professionals (PMPs).</li> </ol>                       |  |
| MUL | LTIPLE CHOICE   |  |
| 1.  |   | of using project management is ower quality ower worker morale   |
| 2.  |   | us areas, many projects cross or other epartmental echnological  |
| 3.  | a. leader c. m  | ng for the project.<br>nanager<br>irector                        |
| 4.  |   | pols, and techniques to project activities in order to echnology |

| 5.  | are the people involved in or affected by project activities and include the project sponsor, project team, support staff, customers, users, suppliers, and even opponents to the project. |       |  |  |
|-----|--|-------|--|--|
|     | <ul><li>a. Managers</li><li>b. Stakeholders</li></ul>  |       | Directors<br>Citizens  |  |
| 6.  | In the example of the project of building a hous   |       |  |  |
|     | a. contractors   |       | managers   |  |
|     | b. support staff   | α.    | homeowners   |  |
| 7.  | Project management ensures that the project undertaken.  | ect v | will satisfy the stated or implied needs for which it was  |  |
|     | a. scope   | c.    | time   |  |
|     | b. quality   | d.    | cost   |  |
| 8.  | Project management involves generating,  | coll  | ecting, disseminating, and storing project information.  |  |
|     | a. risk  |       | communications   |  |
|     | b. procurement   | d.    | resource   |  |
| 9.  | the project.   |       | th making effective use of the people involved with  |  |
|     | a. human   |       | communications   |  |
|     | b. risk  | d.    | procurement  |  |
| 10. | Project management, the ninth knowledge affected by all of the other knowledge areas.  | are   | a, is an overarching function that affects and is  |  |
|     | a. cost  | c.    | integration  |  |
|     | b. quality   | d.    | time   |  |
| 11. | What works on one project may not work on an develop their knowledge and in managing   |       | er, so it is essential for project managers to continue to jects.  |  |
|     | a. time  | c.    | funding  |  |
|     | b. resources   | d.    | skills   |  |
| 12. |  | , the | need to draw on their information technology<br>by must spend time becoming better project<br>spending experts in order to successfully lead their |  |
|     | a. less/less   | c.    | less/more  |  |
|     | b. more/less   | d.    | more/more  |  |
| 13. | Most people agree that the modern concept of p   | roje  | ect management began with the  |  |
|     | a. Great Wall of China   | -     | Egyptian pyramids  |  |
|     | b. first space shuttle   |       | Manhattan Project  |  |

| 14. | was the key industry behind the developr a. NASA   |       | of several project management techniques. Steel manufacturing   |
|-----|--|-------|---|
|     | b. The military                                    |       | Marine biology  |
|     |  |       |   |
| 15. | In, Henry Gantt developed the famous Ga            |       |   |
|     | <ul><li>a. 1817</li><li>b. 1917</li></ul>          |       | 1927<br>1957  |
|     | 0. 1917  | u.    | 1937  |
| 16. | A Gantt chart displays a project's start and finis | sh d  | ates in a format.   |
|     | a. pie chart                                       |       | bar graph   |
|     | b. line graph                                      | d.    | calendar  |
| 17. |  | at d  | etermines the earliest completion of a project is called  |
|     | the path. a. essential                             | C     | critical  |
|     | b. important                                       |       | vital   |
|     | o. Important                                       | ۵.    |   |
| 18. | By the, the military had begun to use soft         |       |   |
|     | a. 1960s   |       | 1980s   |
|     | b. 1970s   | α.    | 1990s   |
| 19. | was an early project management softwar            | re pr | roduct that helped managers analyze complex schedules   |
|     | for designing aircraft.                            |       |   |
|     | a. Artemis   |       | Vega  |
|     | b. Columbia  | d.    | Oberlin   |
| 20. |  |       | mation from multiple projects to show the status of re organization and provides links to more detailed |
|     | information.                                       | enu   | re organization and provides miks to more detailed  |
|     | a. Investment                                      |       | Enterprise  |
|     | b. Active  | d.    | Budget  |
| 21. | Being an information technology project mana       | ger i | involves understanding project management, the  |
|     | information technology function, and the           |       |   |
|     | a. social  |       | business  |
|     | b. Computer (ngẫu hứng)                            | d.    | spatial   |
| 22. | A PMO, or Project Office, is an organization       | tiona | al group responsible for coordinating the project   |
|     | management function throughout an organizati       |       |   |
|     | a. Management                                      | c.    | Municipal   |
|     | b. Money   | d.    | Marketing   |
|     |  |       |   |
| 23. |  |       | rams available, and a(n) number of people are   |
|     | earning Masters degrees and doctorates in proj     | ect I | nanagement.   |

|     | a. unchanging   | c.          | decreasing   |
|-----|---|-------------|--|
|     | b. Increasing (ngẫu hứng)   | d.          | steady   |
|     |   |             |  |
| 24. | demonstrated knowledge of the field of project                            | reed<br>mai | to follow the PMI code of professional conduct, and nagement by passing a comprehensive examination. |
|     | a. Producer   | c.          | Professional   |
|     | b. Practitioner   | d.          | Professor  |
| 25. | By the end of 2002, there were approximately a. 1,000 b. 5,000            | c.          | people certified by PMI. 50,000 500,000  |
| 26. | tools are often recommended for small pr                                  | oiec        | ts and single users.   |
|     | a. Low-end  |             | High-end   |
|     | b. Midrange   |             | Expensive  |
| 27. | tools, sometimes referred to as enterprise to handle very large projects. | proj        | ect management software, provide robust capabilities   |
|     | a. Low-end  | c.          | High-end   |
|     | b. Midrange   | d.          | Inexpensive  |
|     |   |             |  |

| Company ABC Project Portfolio |                        |                      |        |       |  |  |  |  |  |
|-------------------------------|------------------------|----------------------|--------|-------|--|--|--|--|--|
| Project Name                  | Scope                  | Schedule             | Budget | Links |  |  |  |  |  |
| Active Projects               |                        |                      |        |       |  |  |  |  |  |
| Project 1                     |                        |                      |        |       |  |  |  |  |  |
| Project 2                     | •                      | •                    |        |       |  |  |  |  |  |
| Project 3                     |                        | 0                    |        |       |  |  |  |  |  |
| Project 4                     | 0                      |                      | •      |       |  |  |  |  |  |
| Approved Projects             |                        |                      |        |       |  |  |  |  |  |
| Project 10                    |                        | 0                    | 0      |       |  |  |  |  |  |
| Project 11                    | 0                      | 0                    | 0      |       |  |  |  |  |  |
| Project 12                    |                        | 0                    |        |       |  |  |  |  |  |
| Project 13                    | 0                      |                      |        |       |  |  |  |  |  |
| Project 14                    |                        | 0                    |        |       |  |  |  |  |  |
| Opportunities                 |                        |                      |        |       |  |  |  |  |  |
| Project 100                   |                        |                      |        |       |  |  |  |  |  |
| Project 200                   |                        |                      |        |       |  |  |  |  |  |
| 0                             | White = going well     |                      |        |       |  |  |  |  |  |
|                               | Gray = s               | Gray = some problems |        |       |  |  |  |  |  |
| •                             | Black = major problems |                      |        |       |  |  |  |  |  |

| 28. | Th | e figure above is an example of a(n) $\_$ | manag | gement tool. |     |
|-----|----|---|-------|--------------|-----|
|     | a. | portfolio                                 |       | technology   | _ , |

b. information d. Project (ngẫu hứng)

- 29. The Project Management \_\_\_\_\_, a Web site for people involved in project management, provides an alphabetical listing of and links to hundreds of products that help manage projects.
  - a. Center

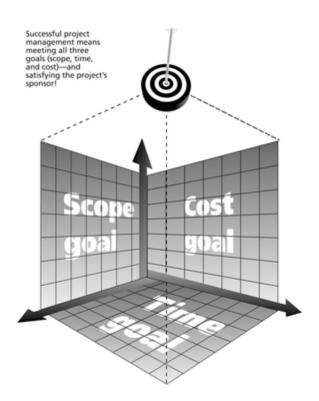
c. Consortium

b. Alliance

d. Facility

## **COMPLETION**

- 1. The "CHAOS" study found that more than 31 percent of information technology projects were \_\_\_\_\_\_\_ before completion, often due to poor project management.
- 2. A(n) \_\_\_\_\_\_\_ is a temporary endeavor undertaken to create a unique product or service.
- 3. The question: "what unique product or service does the customer or sponsor expect from the project?" is related to the \_\_\_\_\_\_ of the project.
- 4. The question "how much money should be spent to complete the project?" is related to the project's \_\_\_\_\_\_.



| 5.   | The figure above illustrates that each of the three dimensions of the triple constraint has a(n)  or goal based on expectations for scope, time, and cost at the beginning of   |  |  |  |  |
|------|---|--|--|--|--|
|      | the project.  |  |  |  |  |
| 6.   | Project management tools andtechniques assist project managers and their teams in carrying out scope, time, cost, and quality management.   |  |  |  |  |
| 7.   | General or Operations managers also focus on a particular discipline or functional area.  |  |  |  |  |
| 8.   | A(n) Gantt chart is a standard format for displaying project schedule information by listing project activities and their corresponding start and finish dates in a calendar format.  |  |  |  |  |
| 9.   | As computer hardware became smaller and moreaffordable and software became graphical and easy to use, project management software became less expensive and more widely used.   |  |  |  |  |
| 10.  | The Project ManagementInstitute (PMI), an international professional society for project managers, has continued to attract and retain members, reporting more than 100,000 members worldwide in early 2003.  |  |  |  |  |
| 11.  | Because there are so many people working on projects in various industries, PMI has created SpecificInterest Groups (SIGs) that enable people to share ideas about project management in their particular application areas, such as information systems. |  |  |  |  |
| 12.  | tools, a step up from low-end tools, are designed to handle larger projects, multiple users, and multiple projects.   |  |  |  |  |
| ESSA | Y   |  |  |  |  |
| 1.   | Discuss the difference between corporate or operations managers and project managers. Give examples for each.   |  |  |  |  |
| 2.   | Discuss the differences and similarities between managing information technology projects and managing other kinds of projects.   |  |  |  |  |
| 3.   | Discuss the PMP code of professional conduct.   |  |  |  |  |

1)

Although being a project manager requires some knowledge of and practice in general management areas, the role of a project manager is different from the role of a corporate manager or executive. The nature of projects distinguishes project management from general or operations management. Since projects are unique, temporary, and involve various resources, project managers must focus on integrating all the various activities required to complete the project successfully. In contrast, most of the tasks performed by a general manager or operations manager are repetitive, ongoing, and done as day-to-day activities. General or operations managers also focus on a particular discipline or functional area. For example, a manager of an accounting department focuses on the discipline of accounting. If a project manager is hired to manage an information technology project for the accounting department, then he or she would need to know some things about accounting as well as information technology. However, the project manager's responsibility would be to manage the project, not to perform accounting or information technology functions.

2)

Lively debates continue on the differences between managing information technology projects and managing other types of projects. There are several differences, but there are even more similarities. Several articles and speakers joke about the differences between construction projects and software development projects. No, you cannot blow up an old information system like you can an old building and start from scratch. No, there are often no specific engineering principles and building codes that everyone knows and follows. Nevertheless, information technology project managers, like all project managers, still have the responsibility for working with their sponsors, project teams, and other stake-holders to achieve specific project and organizational goals. All project managers should continue to develop their knowledge and experience in project management, general management, and the industries they support.

PMI approved a new Code of professional conduct effective January 1, 2007. This new code applies not only to PMPs, but to all PMI members and individuals who hold a PMI certification, apply fro a PMI certification, or serve PMI in a volunteer capacity. IT is vital for project management practitioners to conduct their work in an ethical manner. Even if you are not affiliated with PMI, these guidelines can help you conduct your work in an ethical manner, which helps the profession earn the confidence of the public, employers, employees, and all project stakeholders. The PMI Code of professional conduct includes short chapters addressing vision and applicability, responsibility, respect, fairness, and honestly.

# **Chapter 2: The Project Management and Information Technology Context**

#### TRUE/FALSE

- 1. Many of the theories and concepts of project management are not difficult to understand. (False)
- 2. Organizations should run projects in isolation. (False)
- 3. Organizational issues are often the most difficult part of working on and managing projects. (True)
- 4. Project managers must ignore politics and power if they are to be effective. (False)
- 5. If someone in a functional organization is asked to lead a project that requires strong support from several different functional areas, he or she should ask for senior management sponsorship. (True)
- 6. Project organizational structures are usually the most efficient for the company as a whole. (True) (ngẫu hứng)
- The purpose of project management is to meet project requirements and satisfy stakeholders. (True) (ngẫu hứng)
- 8. Project managers operate independently, having no need for cooperation from people in other parts of the organization. (False)
- 9. Many new information technology project managers have never created project plans or given a nontechnical status report. (True)
- 10. Information technology project managers do not need soft skills. (False)

| 11. | A project idea must pass the concept phase before evolving into the development phase. (True)   |
|-----|---|
| 12. | The prototyping life cycle model requires heavy user involvement. (True)  |
| 13. | Large information technology products are rarely developed as a series of projects. (False)   |
| 14. | People within the same information technology job function always understand each other because they use the same technology. (False)   |
| MOD | IFIED TRUE/FALSE  |
| 1.  | The term <u>systems</u> approach describes a holistic and analytical approach to solving complex problems. True   |
| 2.  | The systems management model divides projects into <u>four</u> spheres(False) three   |
| 3.  | The <u>symbolic</u> frame assumes that organizations are coalitions composed of varied individuals and interest groups(False) political   |
| 4.  | In a(n) <u>project</u> organizational structure, program managers report to the CEO.  |
| 5.  | In a weak matrix organizational structure, the project manager has a(n) <u>full</u> -time role. (False) part  |
| 6.  | Competitors are an example of <u>internal</u> stakeholders(False) external  |
| 7.  | The best way to kill a project is to withhold adequate <u>resources</u>   |
| 8.  | If certain functional managers are not responding to a project manager's requests for necessary information, top management must step in to encourage functional managers to cooperate. |
| 9.  | The concept and <u>implementation</u> phases of a project focus on planning(False)  Development   |

| 10. | A WBS is a work <u>breakthrough</u> struct                       | ture(False) breakdown   |
|-----|--|---|
| 11. |  | loped based on experience with various refinements of the waterfall t software projectsTrue   |
| 12. | Important management reviews conduction (False) check            | lucted after each phase are known as <u>feedback</u> points.  |
| 13. | <u>Ineffective</u> project managers are not s                    | self-assuredTrue  |
| 14. |  | found that respondents believed positive <u>ownership</u> is the strongest (ngẫu hứng)  |
| MUL | TIPLE CHOICE   |   |
| 1.  | The term systems approach emerged a. 1940s b. 1950s              | in the c. 1960s d. 1970s  |
| 2.  |  | pproach that requires defining the scope of the system, dividing it ying and evaluating its problems, opportunities, constraints, and |
|     | <ul><li>a. analysis</li><li>b. philosophy</li></ul>              | c. management<br>d. system  |
| 3.  | Organizational and are both exa<br>a. analytical<br>b. marketing | amples of spheres in the systems management model.  c. philosophical d. technological   |
| 4.  | The systems approach requires that programization.               | project managers view their projects in the context of the larger   |
|     | <ul><li>a. never</li><li>b. rarely</li></ul>                     | <ul><li>c. sometimes</li><li>d. always</li></ul>  |
| 5.  | The frame of an organization fo and the needs of the people.     | ocuses on producing harmony between the needs of the organization   |
|     | a. symbolic  | c. human resources  |
|     | b. structural  | d. political  |

| 6.  | According to the frame, what is most i actually happened, but what it means. | mporta   | nt about any event in an organization is not what      |
|-----|--|----------|--|
|     | a. structural  | C.       | human resources  |
|     | b. symbolic  | d.       | political  |
| 7.  | The R in an ERP system stands for  |          |  |
|     | a. resource  |          | retrofit   |
|     | b. rescue  | d.       | reframing  |
| 8.  | A organizational structure is the hierarchart.                               | chy mo   | ost people think of when picturing an organizational   |
|     | a. management  | c.       | functional   |
|     | b. project   | d.       | matrix   |
| 9.  | Project managers have the authority in in a pure functional organization.    | a pure   | project organization and the amount of authority       |
|     | a. most/most   | c.       | least/most   |
|     | b. most/least  | d.       | least/least  |
| 10. | In a organizational structure, the proje                                     | ct mana  | ager has little or no authority.                       |
|     | a. functional  | c.       | strong matrix  |
|     | b. weak matrix   | d.       | project  |
| 11. | External stakeholders include  |          |  |
|     | a. functional managers   | c.       | concerned citizens                                     |
|     | b. support staff   | d.       | the project team                                       |
| 12. | According to the 2001 Standish Group study                                   | y, the m | nost important factor for helping a project succeed is |
|     | a. having clear business objectives  | C        | user involvement (ngẫu hírng)                          |
|     | b. experienced project management  |          | executive support                                      |
| 13. | Information technology project managers w information technology.            | ork      | _ in an environment in which top management values     |
|     | a. poorly  | c.       | slowly   |
|     | b. adequately  | d.       | Best (ngẫu hứng)                                       |
| 14. | The head of information technology is often                                  | called   | the Chief Officer.                                     |
|     | a. Technology  |          | Information  |
|     | b. Executive   | d.       | Professional   |
| 15. | 1 1  |          | 1 0  |
|     | a. feasibility   |          | cycles   |
|     | b. acquisition   | d.       | deliverables   |

| 16. | The implementation and close-out phases are o a. feasibility                    | c.                 | cycles  |
|-----|---|--------------------|---|
|     | b. acquisition  | d.                 | deliverables                                  |
| 17. | A preliminary or rough cost estimate is develop                                 |                    |   |
|     | <ul><li>a. implementation</li><li>b. development</li></ul>                      |                    | close-out                                     |
| 18. | A is a deliverable-oriented document that                                       |                    |   |
|     | a. BIOS<br>b. CIO   |                    | PMP<br>WBS                                    |
| 19. | A definitive cost estimate is most likely to be p a. development                |                    |   |
|     | b. implementation   |                    | concept<br>close-out                          |
| 20. | The last phase of the project life cycle is  a. close-out                       |                    | concept                                       |
|     | b. development  |                    | implementation                                |
| 21. | is an example of an ASD life cycle model  |                    | VD.   |
|     | a. RAD<br>b. Waterfall  |                    | XP<br>Prototyping                             |
| 22. | Recently, the term software development managing software development projects. | has                | become popular to describe new approaches for |
|     | a. active   |                    | atypical                                      |
|     | b. ancillary  | d.                 | agile   |
| 23. | Scrum sprints normally last days.   |                    | 20  |
|     | a. 10<br>b. 20  | c.<br>d.           | 30<br>40                                      |
| 24. | Scrum works best for projects using techna. object-oriented                     |                    | gy.<br>database                               |
|     | b. outdated   | d.                 | automotive                                    |
|     |   |                    |   |
|     |   | _#####<br>35555555 |   |
|     | Concept Development   | mp                 | lementation Close-out                         |

| 25. | The figure above snows the phases of the        | _ 1116 | e cycle.   |
|-----|---|--------|--|
|     | a. product                                      | c.     | systems development                                      |
|     | b. project                                      | d.     | adaptive   |
|     |   |        | •  |
|     |   |        |  |
| 26. | By breaking projects into, top manageme         | ent c  | an make sure that the projects are still compatible with |
|     | the needs of the rest of the company.           |        |  |
|     | a. products                                     | c.     | data   |
|     | b. scrums                                       | d.     | Phases (ngẫu hứng)                                       |
|     |   |        | ( 8 - 1 - 8)   |
|     |   |        |  |
| 27. | Most trade schools, colleges, and universities  | did r  | not start offering degrees in computer technology,       |
|     |   |        | ns, or other information technology areas until the      |
|     | Francisco, a 18-                                |        | -,   |
|     | a. 1960s  | C      | 1980s  |
|     | b. 1970s  |        | 1990s  |
|     | b. 15/03  | u.     | 13303  |
|     |   |        |  |
| 28. | The National Science Foundation found that      |        | is a skill needed in every major information technology  |
| _0. | field, from database administrator to network s |        |  |
|     | a. programming                                  | _      | editing  |
|     | b. project management                           |        | marketing  |
|     | o. project management                           | u.     | marketing  |
|     |   |        |  |
| 29  | Effective project managers are                  |        |  |
| _5. | a. talkative                                    | C      | self-questioning   |
|     | b. visionaries                                  |        | poor motivators  |
|     | U. VISIOIIdHES                                  | u.     | poor mouvators   |
|     |   |        |  |
|     |   |        |  |
| COM | PLETION   |        |  |
|     |   |        |  |
| 1.  | Systems are sets of in                          | itera  | cting components working within an environment to        |
|     | fulfill some purpose.                           |        | •  |
|     | 1 1   |        |  |
|     |   |        |  |
| 2   | Systems Management                              | ado    | dresses the business, technological, and organizational  |
| ۷.  | issues associated with making a change to a sy  |        |  |
|     | issues associated with making a change to a sy  | Stell  | 1.   |
|     |   |        |  |
| _   |   |        |  |
| 3.  | Politics in organization                        | ons t  | ake the form of competition among groups or              |
|     | individuals for power and leadership.           |        |  |
|     |   |        |  |

|                    | С              | EO                  |       |           |
|--------------------|----------------|---------------------|-------|-----------|
| Program Managers   | VP Engineering | VP Manufacturing    | VP IT | VP HR     |
| Staff              | Staff          | Staff               | Staff | Staff     |
|                    |                |                     |       |           |
| Project Manager A: | 2 engineering  | - 1 manufacturing - | 3½ IT | - ½ HR    |
| Project Manager B: | 5 engineering  | - 3 manufacturing - | 10 IT | 1 HR      |
| Project Manager C: | 1 engineering  | - 0 manufacturing - | 4 IT  | - 1/10 HR |

| 4.  | The figure above is an example of a(n)functional organizational structure.   |
|-----|--|
| 5.  | In a(n) project organizational structure, the project manager has almost total authority.  |
| 6.  | Projectstakeholders are the people involved in or affected by project activities. (ngẫu hứng)  |
| 7.  | Rachel Hollstadt, founder and CEO of a project management consulting firm, suggests that organizations consider adding a new position, a ChiefProject Officer. |
| 8.  | A project cycle is a collection of project phases.   |
| 9.  | A(n) is a product produced as part of a project.   |
| 10. | A systemsproject life cycle is a framework for describing the phases involved in developing information systems.   |
| 11. | The build life cycle model provides for progressive development of operational software, with each release providing added capabilities.                       |
| 12. | In the Scrum life cycle model, repetitions are referred to assprints   |
| 13. | Communication, people, and leadership skills are sometimes known assoftskills.   |

| 14. | Important issues in information technology related to the   | structure                         | frame are the |
|-----|---|-----------------------------------|---------------|
|     | power shifts from central functions to operating units or f | rom functional managers to projec | ct managers.  |
|     | (ngẫu hứng)   |                                   |               |

#### **ESSAY**

- 1. Describe the structural frame of an organization.
- 2. What is a RAD life cycle model and how is it used?
- 3. What is XP? Describe its unique features and disadvantages.
  - 1) The structural frame deals with how the organization is structured (usually depicted in an organizational chart) and focuses on different groups' roles and responsibilities in order to meet the goals and policies set by top management. This frame is very rational and focuses on coordination and control. For example, within the structural frame, a key information technology issue is whether a company should centralize the information technology personnel in one department or decentralize across several departments.
  - 2) Rapid application development is a software development methodology that uses minimal planning in favor of rapid prototyping. A prototype is a working model that is functionally equivalent to a component of the product.

In the RAD model, the functional modules are developed in parallel as prototypes and are integrated to make the complete product for faster product delivery. Since there is no detailed preplanning, it makes it easier to incorporate the changes within the development process.

3) Extreme Programming (XP) is an agile software development framework that aims to produce higher quality software, and higher quality of life for the development team. XP is the most specific of the agile frameworks regarding appropriate engineering practices for software development.

## Advantages:

- The main advantage of Extreme Programming is that this methodology allows software development companies to save costs and time required for project realization
- Simplicity is one more advantage of Extreme Programming projects. The developers who prefer to use this methodology create extremely simple code that can be improved at any moment.

## Disadvantages:

- Some specialists say that Extreme Programming is focused on the code rather than on design. That may be a problem because good design is extremely important for software applications.
- One more disadvantage of XP is that this methodology does not measure code quality assurance. It may cause defects in the initial code.

## Chapter 3: The Project Management Process Groups: A Case Study

#### TRUE/FALSE

1. Managing projects often requires making trade-offs among the project's scope, time, and cost.

T

2. Project managers and teams should reexamine the business need for the project during every phase of the project life cycle to determine if the project is worth continuing.

Т

3. Project teams should never revise project plans during the project life cycle.

F

4. Project management process groups are isolated events.

F

5. Process groups occur at varying levels of intensity throughout each phase of a project.

T

6. Planning processes are especially important for information technology projects.

T

7. The executing process group should not overlap the other process groups.

F

8. The ideal outcome of the controlling process group is to complete a project successfully by delivering the agreed-upon project scope within time, cost, and quality constraints.

 $\mathbf{T}$ 

9. Key outcomes of the executing process group are formal acceptance of the work and creation of closing documents, such as a final project report and lessons-learned report.

T

10. Some organizations develop their own internal information technology project management methodologies.

Т

11. An organization should put considerable thought into project selection to ensure that it initiates the right kinds of projects for the right reasons.

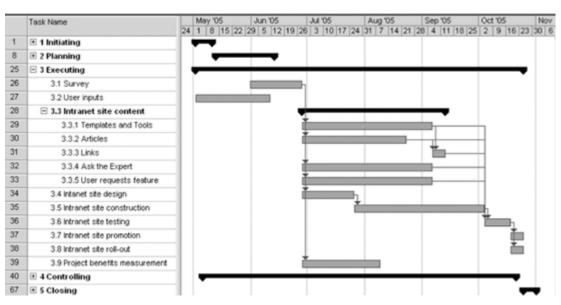
Τ

| 12. | Critical assumptions and constraints are not included in JWD's business case.  F   |
|-----|--|
| 13. | JWD's business case includes a discussion of potential risks. $\mathbf{T}$   |
| 14. | Unfortunately, JWD's Project Charter did not include a space for comments from the stakeholders. ${f T}$   |
| 15. | Executing is often the most difficult and unappreciated process in project management. ${f F}$   |
| MOD | IFIED TRUE/FALSE   |
| 1.  | Planning is one of the five project management process groupsT   |
| 2.  | Project management is an <u>integrative</u> endeavor; decisions and actions taken in one knowledge area at a certain time usually affect other knowledge areasT              |
| 3.  | Closing processes take place during each phase of a projectF(Initiating)   |
| 4.  | Normally, the <u>planning</u> processes require the most resources and timeF(Executing)  |
| 5.  | Research suggests that companies working to implement best practices should spend at least <u>50</u> percent of project time in initiating and planning activitiesF_(10)     |
| 6.  | The $\underline{\text{executing}}$ process group involves taking the actions necessary to complete the work described in the planning activities. $\underline{\hspace{1cm}}$ |
| 7.  | Controlling processes overlap <u>all</u> of the other project management process groups. T   |
| 8.  | During the <u>executing</u> process group, the project team works to gain acceptance of the end product and bring the phase or project to an orderly endF(Closing)           |
| 9.  | An organization may initiate information technology projects for several reasons, but the most important reason is to support <u>business</u> objectivesT                    |

| 10. | The PMBOK Guide 2000 lists project <u>scope management</u> as the only knowledge area involved in initiationT  |
|-----|--|
| 11. | According to JWD's business case, the company will improve <u>profitability</u> by reducing internal costs by providing standard tools, techniques, templates, and project management knowledge to all internal consultantsT |
| 12. | As part of the Team Contract, the staff at JWD decided to meet <u>less</u> frequently the first month.   |
| 13. | The <u>least</u> important output of project execution is work results, or delivery of products and services. F(Most)  |
| 14. | One type of project report is called a(n) <u>milestone</u> reportF(Status/Resource/Board/Executive/Risk)   |
| MUL | TIPLE CHOICE   |
| 1.  | Project management consists of knowledge areas. a. two c. nine b. five d. twenty   |
| 2.  | One of project management's knowledge areas is  a. procurement management c. information b. technology d. quantity   |
| 3.  | Projects involve project management process groups. a. two c. seven b. five d. nine  |
| 4.  | One of the project management process groups is  a. initiating   |
| 5.  | processes include actions to begin or end projects and project phases. a. Planning c. Executing b. Controlling d. Initiating   |
| 6.  | processes include devising and maintaining a workable scheme to ensure the project addresses the company's needs.  a. Planning   |

| 7.  | A common process is a performance revi<br>a staff member is selected to analyze and mana |                       | during which any necessary changes are identified, and hose changes. |
|-----|--|-----------------------|--|
|     | a. executing   |                       | initiating   |
|     | b. controlling   | <mark>d.</mark>       | planning   |
| 8.  | processes include formalizing acceptance   | e of 1                | the phase or project and ending it efficiently.                      |
|     | a. Planning  |                       | Closing  |
|     | b. Controlling   |                       | Executing  |
|     |  |                       |  |
| 9.  |  |                       | e project team, providing leadership, assuring project               |
|     |  |                       | ssary resources, and delivering the actual work.                     |
|     | a. initiating  | c.<br><mark>d.</mark> |  |
|     | b. planning  | a.                    | <u>executing</u>   |
| 10. | The PMBOK Guide 2000 identifies outp   | uts.                  |  |
|     | a. two   |                       | eight  |
|     | b. four  |                       | ten  |
|     |  |                       |  |
| 11. | Clarification of is one of the four outputs  |                       |  |
|     | a. needs   |                       | constraints  |
|     | b. issues  | d.                    | demands  |
| 12. | Some organizations require an approved corpo   | rate                  | project request and an initial and detailed business case            |
|     | in a phase calledproject initiation.   |                       |  |
|     | a. pre   |                       | after .  |
|     | b. post  | d.                    | semi   |
| 13. | According to JWD's business objective, the co  | mpa                   | any's strategic goals include continuing growth and                  |
|     |  | ,,,,,                 | my o outliegre gould metale communing growin and                     |
|     | a. gaining marketshare   |                       | portability  |
|     | b. collaboration   | <mark>d.</mark>       | profitability  |
| 1/1 | The main purpose of a project plan is to   | nroie                 | act execution  |
| 17, | a. prohibit  |                       | follow   |
|     | b. guide   |                       | eliminate  |
|     |  |                       |  |
| 15. | One of the outputs related to a project's scope  | ,                     |  |
|     | a. activity list   |                       | project schedule   |
|     | b. cost estimate   | <mark>d.</mark>       | WBS  |
| 16  | A planning process that belongs to the knowled   | dao                   | area of time is definition   |
| 10. | a. scope   |                       | activity   |
|     | <b>F</b>   |                       | ·- <i>-</i>  |

|     | b.         | cost  | d.                    | quality  |
|-----|------------|---|-----------------------|--|
| 17. | a.         | eating an organizational is an output in role chart   | c.                    | red in organizational planning.<br><mark>plan</mark><br>directory                        |
| 18. | reso<br>a. | eating a(n) management plan is an outpources.  staffing risk  |                       | elated to the organizational planning of human priority communications                   |
| 19. | sun<br>a.  | e scope statement lists the importance of doc<br>nmarizes the, and describes project suc<br>questions<br>issues     | cess<br>c.            | enting the product characteristics and requirements, s criteria. deliverables techniques |
| 20. | sco<br>a.  | ter the project title, date, and the name of the<br>ope statement is the Project<br>Characteristics<br>Requirements | c.                    | son who prepared the statement, the next section of the<br>Deliverables<br>Justification |
| 21. | a.         | BS stands for the Work Structure. Bulletin Background   | c.<br><mark>d.</mark> | Building<br><mark>Breakdown</mark>   |
| 22. |            | JWD's WBS, status reports are part of the _ planning controlling  | c.                    | stage. executing closing   |



| 23. | The figure above is an exam. Gantt b. Hierarchy   | ample of a         | chart.<br>c.<br>d.                  | Summary<br>WBS                             |  |
|-----|---|--------------------|-------------------------------------|--|--|
| 24. | The highlighted boxes in a. important b. critical | the chart above 1  | _                                   | tasks on the<br>information<br>executive   | path.                                      |
| 25. | Executing the project invo                        | olves taking the   | actions ne                          | ecessary to ensu                           | re that activities in the project plan are |
|     | a. initiated b. deleted                           |                    | <mark>c.</mark><br>d.               | <mark>completed</mark><br>considered       |  |
| 26. | It usually takes the most ra. planning b. hiring  | esources to acco   | omplish pi<br>c.<br><mark>d.</mark> | roject<br>input<br><mark>execution</mark>  |  |
|     | MILESTONE   | DATE               | STATUS                              | RESPONSIBLE                                | т  |
|     | Intranet site promotion completed                 | 10/25/05           |                                     | Erica                                      |  |
|     | Intranet site roll-out completed                  | 10/25/05           |                                     | Kevin                                      |  |
|     | Controlling                                       |                    |                                     |  |  |
|     | Status reports                                    | Every Friday       | All                                 |  |  |
|     | Closing   | 10/25/05           |                                     |  |  |
|     | Final project presentation completed              | 10/27/05           |                                     | Erica                                      |  |
| 27. |   | -                  | c.                                  | ort.<br>planning<br><mark>milestone</mark> |  |
| 28. | is the process of me and taking corrective action |                    |                                     |  | es, monitoring deviation from the plan,    |
|     | a. Controlling                                    | on to match prog   | •                                   | Executing                                  |  |
|     | b. Planning                                       |                    | d.                                  | Reforming                                  |  |
| 29. | 0 —   | other phases of tl |                                     |  |  |
|     | <ul><li>a. no</li><li>b. some</li></ul>           |                    | <mark>c.</mark><br>d.               | <mark>all</mark><br>two                    |  |
|     |   |                    |                                     |  |  |

- 30. The \_\_\_\_\_ process includes verifying that all of the deliverables are complete and often includes a final presentation.
  - a. initiating

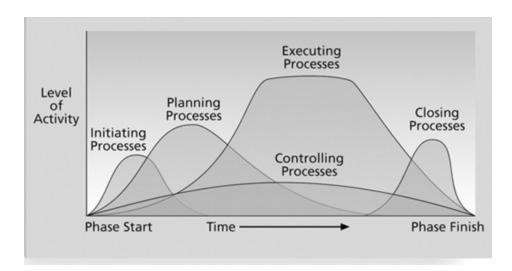
c. planning

b. closing

d. controlling

## **COMPLETION**

- 1. A(n) \_\_\_\_\_\_ is a series of actions directed toward a particular result.
- 2. Project management process **\_\_\_\_groups**\_\_\_\_ progress from initiation activities to planning activities, executing activities, controlling activities, and closing activities.
- 3. During \_\_\_\_\_initiating\_\_\_\_\_ processes for a new project, the organization recognizes that a new project exists.
- 4. Business cases and project \_\_\_\_\_ **originally** \_\_\_\_\_ identify the main stakeholders for a project, justify the project, and specify the high-level scope, time, and cost goals of the project.
- 5. Usually, the project manager and key team members are selected during the \_\_\_\_\_executing \_\_\_\_\_ process group.



- 6. The figure above illustrates the \_\_\_\_overlap\_\_\_\_\_ of process groups in a phase.
- 7. **Monitoring and controlling** processes measure progress toward the project objectives, monitor deviation from the plan, and take corrective action to match progress with the plan.

| 8.   | The organization's strategicCharter expresses the vision, mission, goals, objectives, and strategies of the organization and provides the basis for information technology project planning. |
|------|--|
| 9.   | A Project Charter includes a project start date and a projectedcompletion date.  |
| 10.  | JWD Consulting believed in using teamcontracts, that everyone feels comfortable signing, for all projects to help promote teamwork and clarify team communications.                          |
| 11.  | A projectmilestone can be added to the end of a project if you are not confident that you will meet a schedule goal.   |
| 12.  | Preparing the final project presentation occurs during the process of the project.   |
| 13.  | Preparing a WBS occurs during theexecuting process of the project.   |
| 14.  | Preparing the project charter occurs during theplanning process of the project.  |
| ESSA | Y  |
| 1.   | Discuss why Blue Cross Blue Shield of Michigan decided to develop their own internal information technology project management methods. What were some of their efforts?                     |
| 2.   | Discuss some of the human resource issues that can occur during project execution. Give examples from the JWD project and describe how they were resolved.                                   |
| 3.   | Discuss the importance of planning a smooth transition of the project into the normal operations of the company. Give examples from the JWD case study.                                      |
| Chap | ter 4: Project Integration Management  |
|      |  |

# TRUE/FALSE

1. Integrated change control involves coordinating changes across the entire project. TRUE

| 2.  | Project integration management depends on activities from only five of the eight other knowledge areas. FALSE                        |
|-----|--|
| 3.  | Project integration management includes interface management. TRUE   |
| 4.  | Project integration management must occur within the context of a particular project, not the entire organization. FALSE             |
| 5.  | Project plans should be dynamic, flexible, and subject to change. TRUE   |
| 6.  | A stakeholder analysis should be part of the overall project plan. TRUE  |
| 7.  | Project integration management views project planning and execution as intertwined and inseparable activities. TRUE                  |
| 8.  | Once a project plan is written, it should not be updated. FALSE  |
| 9.  | Project managers may sometimes find it necessary to break the rules to produce project results in a timely manner. TRUE              |
| 10. | To determine that a change has occurred, the project manager must know the status of key project areas at all times. False ingration |
| 11. | Change requests are rare on projects. FALSE  |
| 12. | Project managers must focus on the big picture. TRUE   |

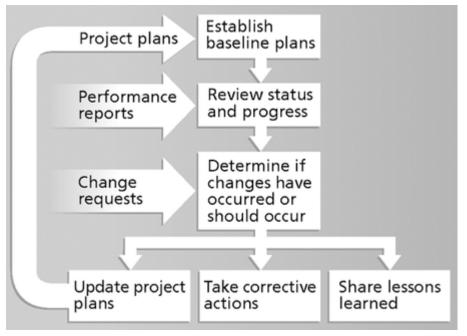
| 13. | Project integration management is often viewed as the least important project management knowledge area. FALSE  |
|-----|---|
| 14. | Project documentation should not be shared over the Internet. FALSE   |
| MOD | DIFIED TRUE/FALSE   |
| 1.  | Project plan <u>execution</u> involves putting the results of other planning processes into a consistent coherent document. <u>development</u>                |
| 2.  | The number of interfaces can increase <u>logarithmically</u> as the number of people involved in a project increasesexponentially                             |
| 3.  | Every project should have a unique <u>name</u> TRUE   |
| 4.  | A responsibility assignment <u>matrix</u> is a tool often used for displaying which individuals are responsible for each segment of the projectTRUE           |
| 5.  | The project <u>contours</u> section of the project plan describes how to monitor project progress and handle changes  |
| 6.  | The application area of the project directly affects project <u>development</u> because the products of the project are produced during this processexecution |
| 7.  | Those who will do the work should <u>plan</u> the workTRUE  |

| 8.  | PDF files are short for Portable <u>Design</u> FormatDocument  |
|-----|--|
| 9.  | Microsoft Project 2002 is an example of project management software. TRUE  |
| 10. | It is important that project managers exercise discipline in managing the project to help <u>minimize</u> the number of changes that occurTRUE |
| 11. | The <u>budget</u> section of the project plan lists the planned dates for completing key deliverables. schedule                                |
| 12. | A change control <u>bureau</u> (CCB) is a formal group of people responsible for approving or rejecting changes to a projectboard              |
| 13. | E-mail, real-time <u>databases</u> , and the Web make it easier to disseminate the most current project informationTRUE                        |
| 14. | For large projects, organizations are likely to benefit most from  |

|    | <ul><li>a. high-end</li><li>b. rear-end</li></ul>  |    | back-end<br><mark>front-end</mark>  |
|----|--|----|---|
| 3. | Most people consider project integration _ a. management b. programmers                      | c. | he key to overall project success.<br>clients<br>marketers                                |
| 4. | management involves identifying and elements of the project. a. Interlace b. Interproject    | c. | naging the points of interaction between various<br><mark>Interface</mark><br>Interpreted |
| 5. | The process of project integration maa. first  b. second                                     | c. | ement is project plan development.<br>third<br>fourth                                     |
| 6. | In order to integrate across project manage there must be a good plan.  a. floor  b. project | c. | t knowledge areas and across the organization, marketing coding                           |
| 7. | Every project needs a  a. tailor-made software package b. Gantt chart                        |    | <mark>sponsor</mark><br>sales team  |
| 8. | The description of the project in the project a. layperson's b. technical                    | c. | n should be written in terms.<br>financial<br>legal                                       |

| 9.  | The project should always be the conf   | tact                         | for project information.   |
|-----|---|------------------------------|--|
|     | a. plan   |                              | programmer   |
|     | b. sales executive  | <mark>d.</mark>              | manager  |
| 10. | Project controls should be described in the a. organizational  b. management and technical approaches             | c.                           | _ section of the project plan.<br>overview<br>project schedule   |
|     |   |                              |  |
| 11. | The acronym CASE stands for Computer A  a. Engineering  |                              | d Software<br>Entertainment  |
|     | b. Experimentation  |                              | Education  |
| 12. | The Institute of Electrical and Electronics Econtents of a(n)  a. Gantt chart  b. Object-oriented Management Plan | c.                           | neers (IEEE) Standard 1058.1 describes the<br><mark>Software Project Management Plan</mark><br>Software Development Plan |
| 13. | The process of project integration ma a. first b. second  | c.                           | ement is project plan execution.<br><mark>third</mark><br>fourth   |
| 14. | The majority of time on a project is usually a. analysis b. testing   | spe<br>c.<br><mark>d.</mark> | ent on<br>development<br><mark>execution</mark>  |

| 15. | The main function of creating project plans a. marketing b. development                                       | c.              | o guide project<br>interface<br><mark>execution</mark>                       |
|-----|---|-----------------|--|
| 16. | Most systems analysts begin their careers a a. programmers b. project managers                                | c.              | <br>clients<br>sales representatives   |
| 17. | Good project plan execution also requires a a. large b. distracted  | <mark>C.</mark> | organizational culture. supportive wealthy                                   |
| 18. | ResNet was the first large information tech manager, and it was a roaring success.  a. financial  b. business | c.              | ogy project at Northwest Airlines led by a(n)<br>project<br>accounting       |
| 19. | Project managers or other team members of Microsoft  a. Project 2002 b. Windows XP                            | c.              | reate Gantt charts using software such as<br>Internet Explorer<br>Windows NT |



| 20. | The figure above shows a schematic of the a. project integration management <b>b. project life cycle?</b> | c.    | <u>*</u>   |
|-----|---|-------|--|
| 21. | The project provides the baseline for a. manager b. plan  | c.    | ntifying and controlling project changes.<br>deliverable<br>software   |
| 22. | Information technology often used to be res   | ferro | the state of the s |

23. Project managers should use \_\_\_\_\_ performance reports to help identify and manage project

c. oral

d. management

d. neither written nor oral

b. interpretation

a. written and oral

changes.

b. written

- 24. The goal of a \_\_\_\_\_ meeting is to communicate what is most important on the project quickly.
  - a. stand-up

c. pack-in

b. front-end

- d. get-out
- 25. It is the \_\_\_\_\_ responsibility to integrate all project changes so that the project stays on track.
  - a. sales representative's

c. project manager's

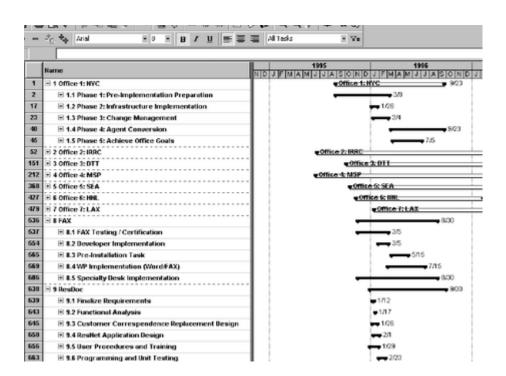
b. client's

- d. programmer's
- 26. Project management is a process of \_\_\_\_\_ communication and negotiation.
  - a. reducing

c. disregarding

b. constant

d. occasional



- 27. The above figure shows a software application tool's creation of a(n) \_\_\_\_\_.
  - a. workflow diagram

c. Gantt chart

b. object model

d. project life cycle

| 28. | The main purpose of a project plan is to facilitate a. explanation   |
|-----|--|
| COM | IPLETION   |
| 1.  | Project planexecution involves carrying out the project plan by performing the activities included in it.  |
| 2.  | Projectintegration management involves coordinating all of the other project management knowledge areas throughout a project's life cycle.                         |
| 3.  | A(n)project management plan is a document used to coordinate all project planning documents and help guide a project's execution and control.                      |
| 4.  | Software packages, pieces of hardware, technical reports, and training materials are examples of deliverables.   |
| 5.  | The projectstaffing section of the project plan describes the number and types of people required for the project.   |
| 6.  | A stakeholderregister documents information such as key stakeholders names and organizations, their roles on the project, and unique facts about each stakeholder. |
| 7.  | JAD stands for JointApplication Design.  |

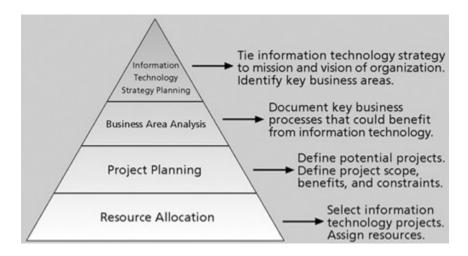
| 8.   | A workauthorization system is a method for ensuring proper   |
|------|--|
|      | communications so that qualified people do the work at the right time and in the proper sequence.  |
| 9.   | Integrated change control involves identifying, evaluating, and managing changes throughout the project life cycle.  |
| 10.  | Project status reports provide status information on how project execution is going.   |
| 11.  | A change system is a formal, documented process that describe when and how official project documents may be changed.  |
| 12.  | Someone who controls and documents the functional and physical characteristics of the project' products is referred to as a configurationmanagement_ specialist. |
| 13.  | In Microsoft Project, you can click on the symbols to drill down to the next level of detail.  |
| 14.  | A project manager's primary focus should be on projectintegration management.  |
| ESSA | $\mathbf{Y}$   |
| 1.   | What should be included in the detailed schedule section of the project plan?  |
| 2.   | Describe status review meetings.   |

3. Describe configuration management and configuration management specialists.

Chapter 5: Project Scope Management

#### TRUE/FALSE

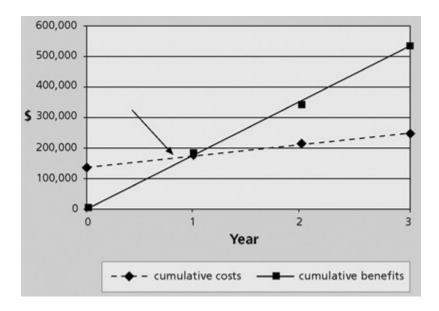
1. Deliverables can be product-related, such as a piece of hardware or a software module, or process-related, such as a planning document or meeting minutes. T



- 2. The figure above illustrates the information technology execution stages.F
- 3. Managers from outside the information technology department should not assist in the information technology planning process.F
- 4. After identifying business areas to focus on, the next step in the information technology planning process is to perform a business area analysis.
- 5. A 2002 study found a direct correlation between closer business and information technology alignment and reporting structure.
- 6. A 2002 study found that the consistent use of information technology standards increased a company's application development costs by 41 percent per user.
- 7. Information systems are not central to business strategy.F

- 8. Information systems can help an organization support a strategy of being a low-cost producer. T
- 9. Because most organizations face few problems or opportunities for improvement, they do not need a strategic plan to guide the project selection process.
- 10. Selecting projects is not an exact science, but it is a critical part of project management. T
- 11. Projects that address broad organizational needs are much less likely to be successful because they aren't specific enough.
- 12. It is often difficult to provide a strong justification for many information technology projects related to broad organizational needs. T
- 13. As projects progress, the organization must reevaluate the need, funding, and will for each project to determine if the projects should be continued, redefined, or terminated. **T**
- 14. It is often more difficult to get approval and funding for projects that address problems or directives because the organization does not need to respond to these categories of projects.
- 15. Some projects can be completed very quickly--within a few weeks, days, or even minutes. T
- 16. The organization should not complete high-priority projects first if a low- or medium-priority project could be finished in less time.F
- 17. Usually there are many more potential information technology projects than an organization can undertake at any one time, so it is critical to work on the most important ones first.
- 18. Financial considerations should not be an important aspect of the project selection process, even during tough economic times.
- 19. You can determine a project's internal rate of return (IRR) by finding what discount rate results in an NPV of zero for the project.
- 20. A payback on a project in less than a year is normally considered very good. F

| 21. | One basic principle that applies to creating any good WBS is that a unit of work should appear in several different places in the WBS.F  |
|-----|--|
| 22. | A WBS item should be the responsibility of only one individual, even though many people may be working on it.F   |
| 23. | Project team members should be involved in developing the WBS to ensure consistency and buy-in. T  |
| 24. | Lack of user input is among the least important factors contributing to project failure.   |
| MOD | IFIED TRUE/FALSE   |
| 1.  | Project <u>deliverables</u> management ensures that the project team and stakeholders have the same understanding of what products the project will produce and what processes the project team will use to produce them. <u>F-scope</u> |
| 2.  | Key project stakeholders, such as the customer and sponsor for the project, formally accept the deliverables of the project during scope <u>definition</u> F-verification  |
| 3.  | A business <u>area</u> analysis documents business processes that are central to achieving strategic goals and aids in discovering which ones could most benefit from information technology.  T   |
| 4.  | The <u>first</u> step in the information technology planning process is selecting which projects to do and assigning resources for working on them. <u>F-last</u>  |
| 5.  | Hacket Best Practices found that companies in which the Chief Information Officer (CIO) reports directly to the Chief Executive Officer (CEO) <u>lowered</u> their operational support costs.  T   |
| 6.  | It is often impossible to estimate the financial value of <u>broad</u> organizational projects, but everyone agrees that they do have a high value. T  |
| 7.  | Even though many information technology projects can be completed quickly, it is still important to <a href="mailto:prioritize">prioritize</a> them. T   |
| 8.  | <u>Payment</u> period is the amount of time it will take to recoup, in the form of net cash inflows, the net dollars invested in a project. F-payback  |



| 9. | In the figure above, the point at which the dotted line and the solid line intersect is the point of |
|----|--|
|    | investment.  |

- 10. A(n) <u>weighted</u> scoring model is a tool that provides a systematic process for selecting projects based on many criteria.
- 11. Instead of project <u>charters</u>, some organizations initiate projects using a simple letter of agreement, while others use formal contracts. T
- 12. Project <u>payback</u> planning involves developing documents to provide the basis for future project decisions, including the criteria for determining if a project or phase has been completed successfully.

13. The section of the project scope management plan describing what determines project <u>success</u> lists the quantifiable criteria to meet, such as cost, schedule, and quality measures.

- 14. Since the <u>WBS</u> defines the total scope of the project, some project management experts believe that work should not be done on a project if it is not included in the WBS. <u>T\_\_\_\_\_\_</u>
- 15. Some project managers suggest creating a WBS using the project management process groups of initiating, planning, executing, controlling, and <u>developing</u> as level 1 in the WBS. F-closing\_\_\_\_\_

| 16. | It is important to involve the entire project team  T   | n an  | d <u>customer</u> in creating and reviewing the WBS.  |
|-----|---|-------|---|
| 17. | The <u>analogy</u> approach to creating a WBS is a rigrouping tasks and can unlock creativity amon mapping        |       | visual, less structured approach to defining and ther<br>dividuals. <mark>F-mind</mark>             |
| 18. | The WBS should be fairly <u>inflexible</u> in order to project according to the scope statement. T                |       | operly maintain control of the work content in the  |
| 19. | Many information technology projects suffer for getting bigger and bigger.F-creep                                 |       | scope <u>bloat</u> , the tendency for project scope to keep   |
| MUL | ΓΙΡLE CHOICE  |       |   |
| 1.  | CIO refers to the Chief Officer. a. Inspection b. Information   |       | Interpretive<br>Isolation   |
| 2.  | Many factors involved with project success, su minimized scope, and firm basic requirements  a. scope  b. funding | are ( |   |
| 3.  | The term refers to all the work involved in used to create them.  a. enactment b. enterprise                      | c.    | eating the products of the project and the processes  scope development                             |
| 4.  | The term describes a product produced as a. input b. output   | c.    | t of a project. process deliverable   |
| 5.  | There are main processes involved in pro a. two b. three  | c.    | scope management.  five  nine   |
| 6.  | <ul><li>involves committing the organization to b</li><li>Scope planning</li><li>Initiation</li></ul>             | c.    | n a project or continue to the next phase of a project.<br>Scope definition<br>Scope change control |

| 7.  | of a project.   |       | ognizing the existence and providing a broad overview   |
|-----|---|-------|---|
|     | a. charter b. plan  |       | action<br>deliverable   |
| 8.  | Scope involves developing documents to criteria for determining if a project or phase h a. definition | as be | vide the basis for future project decisions, including the en completed successfully.  verification |
|     | b. change control   | d.    | planning  |
| 9.  | Scope involves subdividing the major procomponents.   |       | _   |
|     | <ul><li>a. planning</li><li>b. definition</li></ul>   |       | verification change control   |
| 10. | The project team creates a work breakdown sta. definition   |       | rre (WBS) during the scope process. initiation  |
|     | b. change control   |       | planning  |
| 11. | Scope involves formalizing acceptance a. definition   |       | e project scope.  verification  |
|     | b. planning   |       | change control  |
| 12. | Scope changes, corrective action, and lessons a. verification   |       | ned are outputs of the scope process. planning  |
|     | b. initiation   |       | change control  |
| 13. | The term "SWOT" analysis refers to analyzin a. Treats   |       | engths, Weaknesses, Opportunities, and Time   |
|     | b. Threats  | d.    | Traffic   |
| 14. | Many information systems are classified as a. secret  |       | ecause they directly support key business strategies.   |
|     | b. ancillary  |       | strategic   |
| 15. | meet three important criteria: need, funding, a   | and _ |   |
|     | <ul><li>a. value</li><li>b. will</li></ul>  |       | time<br>deliverables  |
| 16. | are undesirable situations that prevent a   | n org | anization from achieving its goals  |
|     | a. Problems   | _     | Opportunities   |
|     | b. Directives   |       | Assets  |
|     |   |       |   |

| <ul> <li>b.</li> <li>18</li> <li>a.</li> <li>b.</li> <li>19. El</li> <li>a.</li> <li>b.</li> <li>20. Al</li> <li>a.</li> <li>b.</li> <li>21. Tl</li> <li>a.</li> </ul> | Problems Directives  are new requirements imposed by manage Objectives Goals  DI stands for data interchange. economic electronic  (n) rate is also called the required rate o development discount  the formula for the discount factor is whe 1(1+r) <sup>t</sup> t/(1+r)  | d.  c. d.  f ret c. d.           | Directives Incentives  event-driven effective  urn, hurdle rate, or opportunity cost of capital. opportunity availability   |
|--|--|----------------------------------|---|
| <ul> <li>18</li></ul>  | are new requirements imposed by manage Objectives Goals  DI stands for data interchange.     economic electronic  (n) rate is also called the required rate of development discount  the formula for the discount factor is when 1(1+r) <sup>t</sup>   | c. d. f ret c. d.                | nt, government, or some external influence.  Directives Incentives  event-driven effective  urn, hurdle rate, or opportunity cost of capital. opportunity availability  r is the discount rate and t is the year. |
| a. b.  19. El a. b.  20. A. a. b.  21. Tl a.   | Objectives Goals  DI stands for data interchange. economic electronic  (n) rate is also called the required rate o development discount  the formula for the discount factor is who 1(1+r) <sup>t</sup>  | c. d. c. d. f ret c. d.          | Directives Incentives  event-driven effective  urn, hurdle rate, or opportunity cost of capital. opportunity availability  r is the discount rate and t is the year.  |
| a. b.  19. El a. b.  20. A. a. b.  21. Tl a.   | Objectives Goals  DI stands for data interchange. economic electronic  (n) rate is also called the required rate o development discount  the formula for the discount factor is who 1(1+r) <sup>t</sup>  | c. d. c. d. f ret c. d.          | Directives Incentives  event-driven effective  urn, hurdle rate, or opportunity cost of capital. opportunity availability  r is the discount rate and t is the year.  |
| <ul> <li>b.</li> <li>19. EI</li> <li>a.</li> <li>b.</li> <li>20. Ai</li> <li>a.</li> <li>b.</li> <li>21. TI</li> <li>a.</li> </ul>                                     | Goals  DI stands for data interchange. economic electronic  (n) rate is also called the required rate o development discount  the formula for the discount factor is who 1(1+r) <sup>t</sup>   | d.  c. d.  f ret c. d.           | event-driven effective  urn, hurdle rate, or opportunity cost of capital. opportunity availability  is the discount rate and t is the year.   |
| <ul> <li>19. El a. b.</li> <li>20. A. a. b.</li> <li>21. Tl a.</li> </ul>  | DI stands for data interchange. economic electronic  (n) rate is also called the required rate o development discount  the formula for the discount factor is whe 1(1+r) <sup>t</sup>  | c.<br>d.<br>f ret<br>c.<br>d.    | event-driven effective  urn, hurdle rate, or opportunity cost of capital. opportunity availability  is the discount rate and t is the year.   |
| <ul> <li>a.</li> <li>b.</li> <li>20. A.</li> <li>a.</li> <li>b.</li> <li>21. Tl</li> <li>a.</li> </ul>   | economic electronic  (n) rate is also called the required rate o development discount  the formula for the discount factor is who 1(1+r) <sup>t</sup>  | d.<br>f ret<br>c.<br>d.<br>ere i | effective  urn, hurdle rate, or opportunity cost of capital. opportunity availability  is the discount rate and t is the year.  |
| <ul><li>b.</li><li>20. A. a. b.</li><li>21. Tl a.</li></ul>  | electronic  (n) rate is also called the required rate o development discount  the formula for the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or the discount factor is who is a second or who is a second | d.<br>f ret<br>c.<br>d.<br>ere i | effective  urn, hurdle rate, or opportunity cost of capital. opportunity availability  is the discount rate and t is the year.  |
| <ul><li>20. A. a. b.</li><li>21. Tl a.</li></ul>   | (n) rate is also called the required rate o development discount  the formula for the discount factor is when 1(1+r) <sup>t</sup>  | f ret<br>c.<br>d.<br>ere i       | urn, hurdle rate, or opportunity cost of capital. opportunity availability is the discount rate and t is the year.  |
| a.<br>b.<br>21. Tl<br>a.   | development discount  the formula for the discount factor is who $1(1+r)^t$  | c.<br>d.<br>ere i                | opportunity availability  is the discount rate and t is the year.   |
| a.<br>b.<br>21. Tl<br>a.   | development discount  the formula for the discount factor is who $1(1+r)^t$  | c.<br>d.<br>ere i                | opportunity availability  is the discount rate and t is the year.   |
| b.<br>21. Tl<br>a.   | discount he formula for the discount factor is $\_\_\_$ who $1(1+r)^t$   | d.<br>ere 1                      | availability  is the discount rate and t is the year.   |
| 21. Tl<br>a.   | the formula for the discount factor is $\_\_\_$ when $1(1+r)^t$  | ere 1                            | is the discount rate and t is the year.   |
| a.   | $1(1+r)^{t}$   | c.                               |   |
|  | · ·  |                                  | $1/(1+r)^{t}$   |
|  | t/(1+r)  | А                                |   |
| b.   |  | u.                               | r(1+t)  |
| 22. R  | OI stands for return on  |                                  |   |
|  | interest   |                                  | intelligence  |
| b.   | information  | d.                               | investment  |
| 23. A  | balanced is a methodology that convert   | s an                             | organization's value drivers, such as customer service,   |
| in   | novation, operational efficiency, and financia   | l pe                             | rformance, to a series of defined metrics.  |
| a.   | scorecard  | c.                               | equation  |
| b.   | Gantt chart  | d.                               | charter   |
| 24. A  | project is a document that formally reco   | ogni                             | zes the existence of a project and provides direction on  |
| th   | e project's objectives and management.   |                                  |   |
| a.   | goal   | c.                               | charter   |
| b.   | definition   | d.                               | initiative  |
| 25. A  | scope is a document used to develop an   | ıd co                            | onfirm a common understanding of the project scope.   |
|  | plan   |                                  | initiative  |
|  | chart  |                                  | statement   |
| 26. Tl   | he project describes the business need th  | at s                             | parked creation of the project.   |
|  | plan   |                                  | budget  |
|  | justification  |                                  | strategy  |

| 27. |   | e process of breaking work into manageable   | _     |  |  |  |  |
|-----|---|--|-------|--|--|--|--|
|     |   | definition   |       | orientation  |  |  |  |
|     | b.  | planning   | d.    | development  |  |  |  |
| 28. |   | work structure is a deliverable-oriented al scope of the project.  | l gro | ouping of the work involved in a project that defines the  |  |  |  |
|     |   | definition   | c.    | breakdown  |  |  |  |
|     | b.  | development  | d.    | benefit  |  |  |  |
| 29. | A(ı   | n) is often depicted as a task-oriented f  | ami   | ly tree of activities, similar to an organizational chart. |  |  |  |
|     | a.  | ROI  | c.    | Internet site  |  |  |  |
|     | b.  | Gantt chart  | d.    | WBS  |  |  |  |
| 30. |   | A WBS can be shown in form as an indented list of tasks that shows the same groupings of the work.                   |       |  |  |  |  |
|     | a.  | pie chart  | c.    | Gantt chart  |  |  |  |
|     | b.  | tabular  | d.    | bar graph  |  |  |  |
| 31. | eig   | hty hours of effort.   | of tl | he WBS which generally should represent roughly            |  |  |  |
|     | a.  | benefit  | c.    | work   |  |  |  |
|     | b.  | investment   | d.    | production   |  |  |  |
| 32. |   | Tasks under initiating include selecting a project manager, forming the project, and developing the project charter. |       |  |  |  |  |
|     | a.  | team   | c.    | budget   |  |  |  |
|     | b.  | goal   | d.    | liturgy  |  |  |  |
| 33. | The tasks vary the most from project to project, but many of the tasks under the other project management process groups would be similar for all projects. |  |       |  |  |  |  |
|     | a.  | initiating   | c.    | planning   |  |  |  |
|     | b.  | closing  | d.    | executing  |  |  |  |
| 34. |   | ining other plans, which would be broken do  | own   | - ·  |  |  |  |
|     | a.  | scope  |       | independent  |  |  |  |
|     | D.  | budget   | a.    | closing  |  |  |  |
| 35. | One approach to developing work breakdown structures is to use  |  |       |  |  |  |  |
|     | a.<br>b   | formulas   |       | guidelines   |  |  |  |
|     | b.  | investments  | u.    | contractors  |  |  |  |
| 36. |   |  |       | you use a similar project's WBS as a starting point.       |  |  |  |
|     | a.  | top-down   | C.    | guideline  |  |  |  |

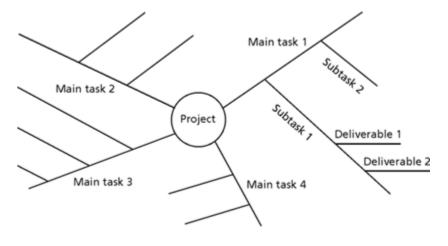
|     | b.  | bottom-up   | d.     | analogy  |  |  |
|-----|---|---|--------|--|--|--|
| 37. |   | use the approach in creating a WBS, so their subordinate items.   | tart ' | with the largest items of the project and break them   |  |  |
|     | a.  | top-down  | c.     | analogy  |  |  |
|     | b.  | bottom-up   | d.     | mind-mapping   |  |  |
| 38. | When constructing a WBS, in the approach, team members first identify as many specific tasks related to the project as possible and then aggregate the specific tasks and organize them into summary activities, or higher levels in the WBS. |   |        |  |  |  |
|     |   | top-down  |        | analogy  |  |  |
|     | b.  | bottom-up   | d.     | mind-mapping   |  |  |
| 39. |   | e approach is a technique that uses braid ideas.  | nche   | es radiating out from a core idea to structure thoughts  |  |  |
|     | a.  | top-down  |        | analogy  |  |  |
|     | b.  | bottom-up   | d.     | mind-mapping   |  |  |
| 40. |   | e tendency for project scope to keep getting  | bigg   | ger and bigger is called creep.  |  |  |
|     |   | project   |        | scope  |  |  |
|     | b.  | process   | d.     | guideline  |  |  |
| 41. | pro   | ject success include user involvement and a   | clea   | - ·  |  |  |
|     |   | budget  |        | values   |  |  |
|     | b.  | requirements  | d.     | staff  |  |  |
| 42. | im  | prove user and reduce incomplete and  | char   |  |  |  |
|     |   | output  |        | input  |  |  |
|     | b.  | technology  | d.     | safety   |  |  |
| 43. |   | D stands for joint design.  |        |  |  |  |
|     |   | accuracy  |        | artistic   |  |  |
|     | b.  | availability  | d.     | application  |  |  |
| 44. | pro   | Common techniques for selecting projects include focusing on broad organization needs, categorizing projects, performing financial analyses, developing weighted scoring models, and using balanced |        |  |  |  |
|     |   | pie charts  |        | Gantt charts   |  |  |
|     | b.  | scorecards  | d.     | portfolios   |  |  |
| 45. | inf   |   | info   | ool, aids in capturing and maintaining requirements rmation, and assists in establishing necessary n created by other tools. |  |  |

- a. projectb. regulations

- c. information
- d. requirements

# **COMPLETION**

| 1.  | Projectscope management includes the processes involved in defining and controlling what is or is not included in a project.   |
|-----|--|
| 2.  | Strategic involves determining long-term objectives by analyzing the strengths and weaknesses of an organization, studying opportunities and threats in the business environment, predicting future trends, and projecting the need for new products and services. |
| 3.  | One common technique for selecting among possible projects is using a(n)weighted scoring model.  |
| 4.  | One method for selecting among potential projects is implementing a balancedscorecard  |
| 5.  | One categorization for information technology projects is based on the it will take to complete a project or the date by which it must be done.  |
| 6.  | NPV stands for net value.  |
| 7.  | The term cashstands for benefits minus costs or income minus expenses.   |
| 8.  | A(n)required rate is the minimum acceptable rate of return on an investment.   |
| 9.  | The annual discountfactor is a multiplier for each year based on the discount rate and year.   |
| 10. | Instead of writing down tasks in a list or immediately trying to create a structure for tasks,mind mapping allows people to write and even draw pictures of ideas in a non-linear formatin creating a WBS.   |



- 11. The figure above is a sample of the \_\_\_\_\_\_ technique for creating a WBS.
- 12. Scope <u>verification</u> involves formal acceptance of the project scope by the stakeholders.
- 13. In order to minimize scope change \_\_\_\_\_\_\_, it is crucial to do a good job of verifying project scope.
- 14. <u>Prototyping</u> involves developing a working replica of the system or some aspect of the system.
- 15. Use case <u>modeling</u> is a process for identifying and modeling business events, who initiated them, and how the system should respond to them.
- 16. Computer Aided Software \_\_\_Engineering\_\_\_\_\_\_ tools or other technologies can assist in maintaining a repository for project data.
- 17. Paypack analysis is the preferred financial measure for selecting projects.

### **ESSAY**

- 1. Why should a company invest in information technology?
- 2. What are the steps involved in determining NPV? Include the mathematical formula for NPV.

3. What is involved in the process of creating a weighted scoring model? What are some of the criteria you should consider?

### **Chapter 6: Project Time Management**

### TRUE/FALSE

A 222 percent time overrun means that a project that was planned to take one year ended up taking 1.22 years to complete.

Т

2. Schedule control involves analyzing activity sequences, activity duration estimates, and resource requirements to create the project schedule.

T

3. Ideally, the project team and key stakeholders first define the project budget and then the time or schedule for the project.

Т

4. The WBS is often dissected during the activity definition process as the project team members further define the activities required for performing the work.

Т

5. Determining the relationships or dependencies between activities has a significant impact on developing and managing a project schedule.

Т

6. Discretionary dependencies are sometimes referred to as hard logic.

F

7. Most project management software uses the precedence diagramming method.

T

8. Duration relates to the effort estimate, not the time estimate.

F

9. Gantt charts normally do not show relationships among project activities, as network diagrams do.

Т

10. A slipped milestone means the milestone activity was actually completed earlier than originally planned.

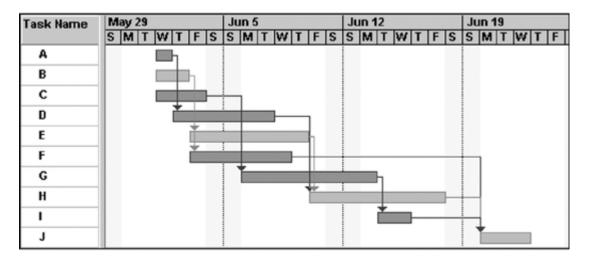
11. Even though the critical path is the longest path, it represents the shortest time it takes to complete a project.

T

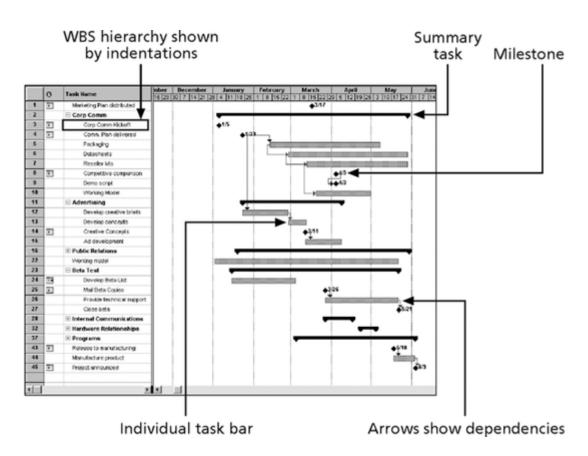
12. There cannot be more than one critical path on a project.

| 13. | The main disadvantage of fast tracking is that it can end up lengthening the project schedule since starting some tasks too soon often increases project risk and results in rework.  T                 |  |  |  |
|-----|---|--|--|--|
| 14. | It is impossible to find the critical path for a project without considering resource allocation.  T  |  |  |  |
| 15. | Critical chain scheduling assumes that resources do not multitask. T  |  |  |  |
| 16. | PERT is the best probabilistic method for assessing risk. F   |  |  |  |
| 17. | Not every single item on the WBS needs to be on the network diagram.  T   |  |  |  |
| 18. | As a rule of thumb, all arrowheads should face toward the left on an AOA network diagram. F   |  |  |  |
| 19. | The critical path is concerned only with the time dimension of a project, not with the most critical activities.  T   |  |  |  |
| 20. | <ol> <li>Project time management is often cited as the main source of conflict on projects.</li> <li>T</li> </ol>   |  |  |  |
| MOD | IFIED TRUE/FALSE  |  |  |  |
| 1.  | Budget is the variable that has the least amount of flexibility on a project.  F(Time)  |  |  |  |
| 2.  | The triple constraint of project management involves balancing scope, time, and <u>social</u> goals. F(cost)  |  |  |  |
| 3.  | The three project time management processes of activity definition, activity sequencing, and activity duration estimating are the basis for creating a project <a href="mailto:schedule">schedule</a> T |  |  |  |
| 4.  | Activity <u>definition</u> usually results in the project team developing a more detailed WBS and supporting explanationsT  |  |  |  |
| 5.  | <u>Controls</u> or tasks are elements of work performed during the course of a project: they have expected durations, costs, and resource requirements.   |  |  |  |

| 6.  | After defining project activities, the next step in project time management is activity <u>budgeting</u> . F(duration)   |
|-----|--|
| 7.  | Mandatory dependencies are sometimes called <u>soft</u> dependenciesF(logical)   |
| 8.  | <u>Discretionary</u> dependencies should be used with care since they may limit later scheduling options.  |
| 9.  | Network diagrams are the preferred technique for showing activity sequencing. T  |
| 10. | <u>Malleable</u> activities have no duration and no resources but are occasionally needed on AOA network diagrams to show logical relationships between activities. F(Dummy activity)                |
| 11. | Gantt charts provide a standard format for displaying project schedule information by listing project activities and their corresponding start and finish dates in a calendar format. T              |
| 12. | The <u>sudden</u> start date for an activity is the earliest possible time an activity can start based on the project network logic  |
| 13. | <u>Primary</u> chain scheduling is a method of scheduling that considers limited resources when creating a project schedule and includes buffers to protect the project completion date. F(Critical) |
| 14. | Multitasking occurs when a resource works on more than one activity at a time. T   |
| 15. | Gantt's Law states that if something can go wrong, it willF(Murphy)  |
| 16. | <u>Feeding</u> buffers are additional time added before tasks on the critical chain that are preceded by non-critical-path tasksT  |



- 17. The figure above is an example of a(n) <u>PDM</u> chart for Project X. \_\_\_\_\_
- 18. The activities on the Gantt chart should coincide with the activities on the <u>WBS</u>.

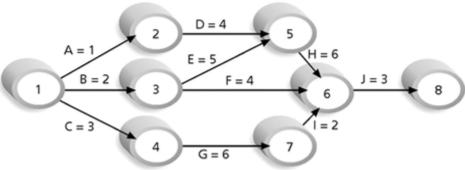


19. In the figure above, the arrows show <u>alliances</u>. \_\_\_\_\_\_T\_\_\_\_

### **MULTIPLE CHOICE**

| 1. |                       |  |                 | ll information technology projects that were planned to |
|----|-----------------------|--|-----------------|---|
|    |                       | e one year ended up taking years to co<br><mark>1.4</mark>                             | _               | ete.<br>2.2   |
|    |                       | 1.8  |                 | 2.6   |
|    |                       |  |                 |   |
| 2  | Ov                    | erall, issues cause the most conflict ov   | er th           | ne life of a project                                    |
|    |                       | budget   |                 | planning  |
|    | <mark>b.</mark>       | schedule   | d.              | verification  |
|    |                       |  |                 |   |
| 3. | The                   | ere are main processes involved in pro   | ject            |   |
|    |                       | two  | <mark>C.</mark> | six   |
|    | D.                    | four   | α.              | ten   |
|    |                       |  | . •             |   |
| 4. |                       | tivity involves identifying the specific st perform to produce the project deliverable |                 | vities that the project team members and stakeholders   |
|    |                       | conflict   | с.              | verification  |
|    | b.                    | modification   | <mark>d.</mark> | definition  |
|    |                       |  |                 |   |
| 5. |                       |  |                 | g the relationships between project activities.         |
|    |                       | duration   |                 | control   |
|    | D.                    | development  | <mark>d.</mark> | sequencing  |
| •  |                       |  |                 |   |
| 6. |                       | tivity estimating involves estimating the ividual activities.                          | ne nı           | umber of work periods that are needed to complete       |
|    |                       | duration   | c.              | development   |
|    | b.                    | sequencing   | d.              | control   |
|    |                       |  |                 |   |
| 7. |                       | nedule involves analyzing activity sequ  | ıenc            | es, activity duration estimates, and resource           |
|    | -                     | uirements to create the project schedule.  | -               | control   |
|    |                       | sequencing<br><mark>development</mark>   |                 | control<br>duration                                     |
|    | <u>.</u>              | de velopment   | u.              | duration  |
| B  | Sch                   | nedule involves managing changes to t  | he n            | roject schedule   |
| 0. |                       | sequencing   | пс р<br>С.      | development   |
|    |                       | duration   | <mark>d.</mark> | control   |
|    |                       |  |                 |   |
| 9. |                       | •  |                 | ne detailed WBS, detailed product descriptions,         |
|    |                       | umptions, and constraints to determine the r   |                 | -   |
|    | <mark>a.</mark><br>b. | budgeting<br>definition  | c.<br>d.        | sequencing<br>management                                |
|    |                       |  |                 |   |

10. There are \_\_\_\_\_ basic reasons for creating dependencies among project activities. a. three c. eight b. five d. nine \_ dependencies are inherent in the nature of the work being done on a project. **Mandatory** c. External b. Discretionary d. Relationship \_ dependencies are defined by the project team. Mandatory c. External b. Discretionary d. Relationship dependencies involve relationships between project and non-project activities. 13. c. External a. Mandatory b. Discretionary d. Relationship 14. A project diagram is a schematic display of the logical relationships among, or sequencing of, project activities. a. Gantt c. schedule b. bar graph d. network D = 4



- 15. In the figure above, the letters A through J represent activities with \_\_\_\_\_ that are required to complete the project.
  - a. dependencies

c. budgets

b. schedules

- d. deliverables
- 16. A PDM, or \_\_\_\_\_ diagramming method (PDM) is a network diagramming technique in which boxes represent activities.
  - a. precedence

c. parallel

b. predictive

- d. primary
- 17. \_\_\_\_ is a relationship in which the "from" activity cannot start until the "to" activity is started.

|     | <mark>b.</mark> | Start-to-start  | d.   | Start-to-finish   |
|-----|-----------------|---|------|---|
| 18. |                 | is a rarely used relationship in which the ished.   | "fro | m" activity must start before the "to" activity can be                                  |
|     |                 | Finish-to-start<br>Start-to-start   |      | Finish-to-finish<br><mark>Start-to-finish</mark>  |
| 19. | fini            | example of a relationship is when qualishes, although the two activities can be perfectionship. | form | control efforts cannot finish before production led at the same time.  Finish-to-finish |
|     |                 | Start-to-start  |      | Start-to-finish   |
| 20. |                 | e number of workdays or work hours require  |      | complete a task is called effort  |
|     |                 | length  |      | time  |
| 21. |                 | a Gantt chart, a(n) is a significant eve marker   |      | n a project with zero duration.<br>milestone  |
|     |                 | goal  |      | inning  |
| 22. |                 | - , , , ,   |      | path is used to predict total project duration.   |
|     |                 | requirements<br>divisions   |      | therapy<br><mark>analysis</mark>  |
| 23. | the             | project finish date.  | may  | y be delayed without delaying a succeeding activity o                                   |
|     |                 | flotsam<br>float  |      | excess<br>padding   |
| 24. | A(ı             | n) pass determines the early start and e  | arly | finish dates for each activity.   |
|     |                 | forward   |      |   |
|     | b.              | backward  | d.   | early   |
| 25. | cor             | npression for the least incremental cost.   |      | rade-offs to obtain the greatest amount of schedule                                     |
|     | a.              | Costing   |      | Creating  |
|     | b.              | Crashing  | d.   | Culling   |
| 26. | <br>a.          | tracking involves doing activities in paral<br>Parallel   |      | hat you would normally do in sequence.<br>Slow  |
|     |                 | Simultaneous  |      | Fast  |

c. Finish-to-finish

a. Finish-to-start

| 27. | system at any point in time often has only one  | aspe                  | t, like a chain with its weakest link, any complex ect that limits its ability to achieve more of its goal. |
|-----|---|-----------------------|---|
|     | <ul><li>a. Complaints</li><li>b. Constraints</li></ul>                                |                       | Constructs<br>Conventions   |
| 28. | Law states that work expands to fill the tale.  Parkinson's                           |                       | allowed.<br>Murphy's  |
|     | b. Gantt's  |                       | Stevenson's   |
| 29. | reduce its product introduction interval by   | _ pe                  |   |
|     | a. 20<br>b. 30  |                       | 40<br>50  |
| 30. | Technologies Group successfully implen concurrent projects in nine locations.         | nente                 | ed critical chain scheduling to manage more than 200  |
|     | <ul><li>a. Lucent</li><li>b. Antarctic</li></ul>                                      |                       | Synergis U.S.   |
| 21  | ADM stands for diagramming method.  |                       |   |
| 31. | a. advanced b. arrow  |                       | assertive<br>anchor   |
|     |   |                       |   |
| 32. | and connected at points to illustrate the sequer                                      | ice o                 |   |
|     | <ul><li>a. Activity</li><li>b. Arrow</li></ul>  |                       | Advances<br>Articles  |
| 33. | A(n) pass is a project network diagramm dates for each activity in a similar fashion. | ing t                 | echnique that determines the late start and late finish   |
|     | a. forward b. backward  |                       | fast<br>slow  |
|     | b. buckward   | u.                    | 310 W   |
| 34. | A(n) is when a single node is followed b a. start                                     | y two                 | o or more activities on a network diagram.<br>milestone   |
|     | b. arrow  | d.                    | burst   |
| 35. | A(n) occurs when two or more nodes pre  |                       |   |
|     | <ul><li>a. mesh</li><li>b. milestone</li></ul>  | <mark>c.</mark><br>d. | <mark>merge</mark><br>burst   |
| 36. |   |                       | nistic time + 4(most likely time) + pessimistic time)/6.  |
|     | <ul><li>a. weighted</li><li>b. probabilistic</li></ul>                                |                       | slack<br>constraint   |
|     | D. DESTRUCTIONS   | u.                    | COMPRESSION   |

| 37. | A(n) Gantt chart is a Gantt chart that compares planned and actual project schedule information.  a. information c. singular b. tracking d. inverted                                    |
|-----|---|
| 38. | One of the first checks a project manager should make is to review the draft schedule usually included in the project charter.  |
|     | a. time c. progress   |
|     | b. reality d. account   |
| 39. | coding involves entering all activity dates manually instead of letting the software calculate them based on durations and relationships. a. Cold                                       |
| COM | PLETION   |
| 1.  | The 2001 CHAOS report showed that time overrunsdecreased significantlybetween 1995 and 2000.  |
| 2.  | Part of the reason schedule problems are so common is thattime is easily and simply measured.   |
| 3.  | An activity ortask is an element of work normally found on the WBS that has an expected duration, a cost, and resource requirements.  |
| 4.  | The goal of the activity definition process is to ensure that the project team has complete understanding of all the work they must do as part of the project scope.                    |
| 5.  | Activitydefinition results in supporting detail to document important product information as well as assumptions and constraints related to specific activities.                        |
| 6.  | The project team should review the revised WBS and supporting detail with projectstakehoders before moving on to the next step in project time management.                              |
| 7.  | A(n) or relationship shows the sequencing of project activities or tasks.   |
| 8.  | Even though the delivery of the new hardware may not be in the order of the project, you should add an external dependency to it because late delivery will affect the project schedule |

| 9.  | Duration includes the actual amount of time worked on an activity plus elapsed  |
|-----|---|
|     | time.   |
| 10. | SMART criteria are guidelines suggesting that milestones should be Specific, Measurable, Assignable, Realistic, andTime-framed  |
| 11. | In a Gantt chart, planned schedule dates for activities are called thebaselinedates.  |
| 12. | A(n) path for a project is the series of activities that determine the earliest time by which the project can be completed.   |
| 13. | Critical chain theory suggests that projects be prioritized so people working on more than one project at a time know which tasks are most important.   |
| 14. | A(n) is additional time to complete a task.   |
| 15. | PERT, or Program Evaluation andnetwork analysis Technique, is a network analysis technique used to estimate project duration when there is a high degree of uncertainty about the individual activity duration estimates. |
| 16. | PERT uses probabilistic time estimates, duration estimates based on using optimistic, most likely, and pessimistic estimates of activity durations.   |
| 17. | In an AOA diagram, a(n) activity information represents the starting or ending point of an activity.  |
| 18. | Althoughduration shortens the time it takes to finish a project, it often increases the project's total costs.  |
| 19. | The main disadvantage offast tracking is that it can end up lengthening the project schedule since starting some tasks too soon often increases project risk and results in rework.                                       |
| 20. | "death march" projects are ones that are doomed to failure from the start, due to unrealistic expectations.   |

### **ESSAY**

- 1. Describe some of the leadership skills that help project managers control schedule changes.
- 2. What does project management software do and why is it useful?
- 3. What are some of the pitfalls of using project management software? Use an example from the text to illustrate your point.

## **Chapter 7: Project Cost Management**

#### TRUE/FALSE

1. Although information technology projects have a poor track record in meeting schedule goals, they have a great track record in meeting budget goals.

Т

2. Costs are often measured in monetary amounts, such as dollars, that must be paid to acquire goods and services.

Т

3. Many principles of cost management are unique to project management.

F

4. Most executives are more concerned with profits than with other issues.

T

5. Top management and project managers should never be concerned with the life cycle costs of projects when they make financial decisions.

F

6. It is much more cost-effective to spend money doing early testing on information technology projects than to wait for problems to appear after implementation.

Τ

- 7. Labor costs are usually a small percentage of total project costs.
- 8. It is important to thoroughly brainstorm and evaluate alternatives related to resources, especially on projects that involve people from multiple disciplines and companies.

Т

9. A ROM estimate's accuracy is typically -25 percent to +100 percent.

Б

| 10. | Analogous estimates are also called top-down estimates.  T  |
|-----|---|
| 11. | Parametric modeling involves estimating individual work items and summing them to get a project total.  |
| 12. | Earned value management involves calculating three values for each activity or summary activity from a project's WBS.  T                                  |
| 13. | If the cost performance index is equal to one or 100 percent, then the costs are exactly as budgeted. ${\color{blue}T}$                                   |
| 14. | If the schedule performance index is less than one or 100 percent, the project is ahead of schedule. <b>F</b>   |
| 15. | Putting all your projects in one database is the simplest level of project portfolio management. T  |
| MOD | IFIED TRUE/FALSE  |
| 1.  | Many information technology professionals think preparing cost estimates is beneath them and consider it a job for <u>accountants</u> .                   |
| 2.  | The triple constraint of project management involves balancing <u>social</u> , time, and cost goals.<br>scope   |
| 3.  | Many projects that are started never finish because of <u>timeline</u> management problems.   |
| 4.  | Most members of an executive board are more interested in <u>financial</u> terms than information technology terms  |
| 5.  | <u>Life cycle</u> costing considers the total cost of ownership plus support costs for a project.  T  |
| 6.  | Cash flow <u>development</u> is a method for determining the estimated annual costs and benefits for a project and the resulting annual cash flowanalysis |
| 7.  | Project managers should focus on <u>sunk</u> costs, since they can control them.  direct  |
|     |   |

| 8.  | <u>Indirect</u> costs are allocated to projects, and project managers have very little control over them.               |
|-----|---|
|     | T   |
| 9.  | Project managers must take cost <u>estimates</u> seriously if they want to complete projects within budget constraintsT |
| 10. | A ROM estimate is done very <u>late</u> in a project  |

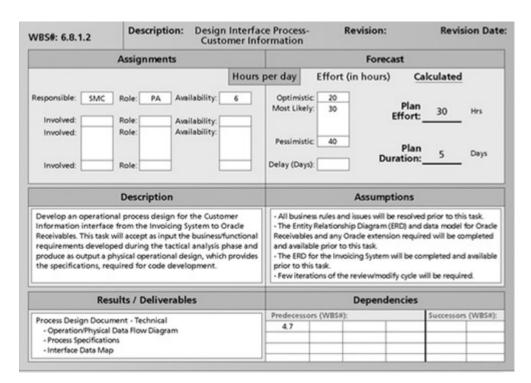
11. <u>Parametric</u> estimates are most reliable when the previous projects are similar in fact, not just in appearance.

Analogous

early

- 12. Using smaller work items <u>increases</u> the accuracy of the bottom-up cost estimate because the people who develop the cost estimate are the ones assigned to do the work. \_\_\_\_\_\_
- 13. <u>Legacy</u> systems, or older information systems that run on old mainframe computers, support basic business processes such as general ledger, accounts payable and receivable, and project accounting.

Т



14. The figure above is an example of a cost control <u>output</u> form for a business systems replacement project.

### MULTIPLE CHOICE

| 1. | The additional percentage or dollar amount by a. excess b. availability                                 |                         | ch actual costs exceed estimates is called the cost completion overrun                   |
|----|---|-------------------------|--|
| 2. | EVM stands for value management. a. excess b. earned  |                         | eventual<br>economic   |
| 3. | Project management includes the process project within an approved budget.  a. cost                     |                         | equired to ensure that a project team completes a scope                                  |
|    | b. time frame   |                         | goal   |
| 4. | planning involves determining what peoperform project activities and the quantities of a. Scope b. Cost | each<br><mark>c.</mark> | equipment, and materials a project team should use to a resource.  Resource  Development |
| 5. | The output of the resource planning process is a. goals b. requirements                                 | c.                      | t of resource ideas plans  |
| 6. |   | ion o                   | f the costs of the resources needed to complete a  |
|    | project. a. budgeting b. control  | <mark>c.</mark><br>d.   | estimating<br>planning   |
| 7. | The main outputs of the cost estimating procesplan.   | ss are                  | e cost estimates, detail, and a cost management  |
|    | <ul><li>a. development</li><li>b. budget</li></ul>  | c.<br><mark>d.</mark>   | scope<br>supporting  |
| 8. | Cost involves allocating the overall cost measuring performance.  | estin                   | nate to individual work items to establish a baseline for                                |
|    | a. budgeting  | C.                      | control  |
|    | b. analysis   | d.                      | estimating   |
| 9. | The main output of the cost budgeting process   | is a                    |  |
|    | a. graph  | c.                      | analysis   |
|    | b. baseline   | d.                      | estimate   |

| 10. | The main outputs of the cost control process at estimate at completion, and lessons learned. | re re           | vised cost estimates, budget, corrective action,   |
|-----|--|-----------------|--|
|     | a. charts  | c.              |  |
|     | b. timelines   | d.              | goals  |
| 11. | Profit is the ratio between revenues and p   | profi           | ts.  |
|     | <ul><li>a. margin</li><li>b. life cycle</li></ul>  |                 | scope<br>cost  |
|     | b. The cycle   | u.              | COST   |
| 12. | costing allows you to see a big-picture viprojection of a project's financial benefits.      | iew (           | of the cost of a project and develop an accurate   |
|     | a. Project scope   |                 | Development  |
|     | b. Life cycle  | d.              | Profit   |
| 13. | costs or benefits are those costs or benefit   | its th          | at an organization can easily measure in dollars.  |
|     | a. Sunk  |                 | Indirect   |
|     | b. Direct  | <mark>d.</mark> | Tangible Control of the Control of t |
| 14. | costs or benefits are costs or benefits that   | t are           | difficult to measure in monetary terms.  |
|     | a. Indirect  |                 | Intangible The Control of the Contro |
|     | b. Direct  | d.              | Tangible   |
| 15. | costs are costs related to a project that an   | orga            | anization can trace back in a cost-effective way.  |
|     | a. Direct  |                 | Sunk   |
|     | b. Indirect  | d.              | Intangible   |
| 16. | The cost of electricity, paper towels, and so on examples of costs.                          | in a            | large building housing a thousand employees are  |
|     | a. tangible  | c.              | direct   |
|     | b. intangible  | <mark>d.</mark> | indirect   |
| 17  | cost is money that has been spent in the p   | nast            |  |
| 1,, | a. Direct  | C.              | <b>Sunk</b>  |
|     | b. Indirect  | d.              | Intangible   |
| 18. | Contingency reserves, also sometimes called  |                 | allow for future situations that may be partially  |
|     | planned for and are included in the project cos  |                 | · · · · · · · · · · · · · · · · · · ·  |
|     | a. unknown knowns  |                 | unknown unknowns   |
|     | b. known unknowns  | d.              | known knowns   |
| 19. | Management reserves, sometimes called,   | , allo          | w for future situations that are unpredictable.  |
|     | <mark>a.    unknown unknowns</mark>  | c.              | unknown knowns   |
|     | b. known unknowns  | d.              | known knowns   |

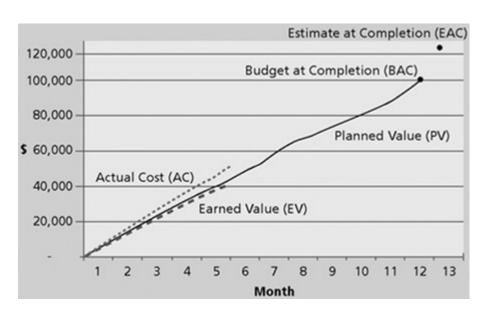
| 20. | A ROM or a rough order of (ROM) estima. maintenance b. money                              | <mark>C.</mark> | provides a rough idea of what a project will cost.<br>magnitude<br>misdemeanors |
|-----|---|-----------------|---|
| 21. | <ul><li>and for estimating final project costs.</li><li>a. Budgetary</li></ul>            | c.              | Rough   |
| 22  | b. Definitive   |                 | Absolute  |
| 22. | current project.  | 5, S1II         | nilar project as the basis for estimating the cost of the                       |
|     | a. Analogous  | c.              | Parametric  |
|     | b. Bottom-up  | d.              | Constructive Cost   |
| 23. | One popular parametric model is the Cost development costs based on parameters such as    |                 |   |
|     | a. Creative   |                 | Coupled   |
|     | b. Collaborative  | <mark>d.</mark> | Constructive  |
| 24. | EVM or value management is a project potime, and cost data.                               | erfoi           | mance measurement technique that integrates scope,                              |
|     | a. excess   | <mark>C.</mark> | <mark>earned</mark>   |
|     | b. eventual   | d.              | elapsed   |
| 25. | A(n) is the original project plan plus appr   |                 | <del>-</del>  |
|     | <ul><li>a. description</li><li>b. baseline</li></ul>                                      |                 | forecast<br>assignment  |
|     | o. buschine   | u.              | assignment  |
| 26. | The value (PV), also called the budget, is be spent on an activity during a given period. | that            | portion of the approved total cost estimate planned to                          |
|     | a. prepared   | c.              | periodical  |
|     | b. planned  | d.              | participant   |
| 27. |   | ıcurı           | red in accomplishing work on an activity during a                               |
|     | given period. a. planned value  | <mark>C.</mark> | actual cost   |
|     | b. earned value   | d.              | budgeted cost   |
| 28. | is the earned value minus the actual cost.  |                 |   |
|     | a. Schedule variance  | C.              | Schedule performance index  |
|     | b. Cost performance index   | <mark>d.</mark> | Cost variance   |

- 29. The \_\_\_\_\_ performance index can be used to calculate the estimate at completion (EAC), an estimate of what it will cost to complete the project based on performance to date.
  - a. completion

c. spreadsheet

b. cost

d. project



- 30. The figure above shows the earned value chart for the project after \_\_\_\_ month(s).
  - a. one

c. twelve

b. five

d. thirteen

### COMPLETION

- 1. In 1995, more than 31 percent of information technology projects were canceled before completion, costing U.S. companies and government agencies over \$81 billion\_\_\_\_\_.
- 2. \_\_\_\_Net income\_\_\_\_\_ are revenues minus expenses.
- 3. To increase profits, a company can increase revenues, \_\_\_\_\_\_ expenses, or try to do both.
- 4. When justifying investments in new information systems and technology, it is important to focus on the impact on \_\_\_profits\_\_\_\_\_\_, not just revenues or expenses.
- 5. IRR stands for the internal rate of return.
- 6. Another name for the IRR is the \_\_\_\_\_\_ rate of return.

|         | rning curve theory states that when many items are produced repetitively, the unit cost of those items reases in a regular pattern as more units are produced.  |
|---------|---|
|         | erves are dollars included in a cost estimate to mitigate cost risk by allowing for future situations that difficult to predict.  |
|         | M estimates can also be referred to as a ball-park estimate, a guesstimate, a swag, or a(n)broad gauge.   |
| 10. Ab  | udgetary <u>estimate</u> is used to allocate money into an organization's budget.   |
| crea    | the cost estimating process, the supporting details include the ground rules and assumptions used in ating an estimate, a description of the project used as a basis for the estimate, and details on the cost mation tools and techniques used to create the estimate. |
|         | action points are technology-independent assessments of the functions involved in developing a tem.   |
|         | ost baseline is a time-phased budget that project managers use to measure and monitor cost formance.  |
|         | EAC, or estimate at completion, is an estimate of what it will cost to finish the project based on formance to date.  |
| ESSAY   |   |
|         | plain what is meant by the term "learning curve theory." Give an example to accompany your lanation.  |
| 2. Des  | scribe parametric modeling. Give an example to illustrate the concept.  |
| 3. Wh   | y is it that many organizations do not use earned value management on many projects?  |
| Chapter | 8: Project Quality Management   |

# TRUE/FALSE

| 1. | Most information technology products can reach 100 percent reliability. |
|----|---|
|    | F   |

2. One of the goals of quality assurance is continual quality improvement.

T

- 3. Quality audits should always be random, never scheduled.
- 4. If project stakeholders reject some of the products or services produced as part of the project, there must be rework.

Т

- 5. Members of a project team who focus on quality control only need to understand the basic concepts of statistics; the other team members, however, must have a very strong understanding of the subject.
- 6. In statistical sampling, the size of the sample depends on how representative you want the sample to be.
- 7. Six Sigma's target for perfection is the achievement of no more than 30 defects, errors, or mistakes per million opportunities.
- 8. One advantage of adopting Six Sigma principles for an organization is that there are no training investments necessary.
- 9. Motorola estimates their cumulative savings based on Six Sigma efforts to be about \$14 billion.
- 10. A recent article in *Fortune* states that companies that have implemented Six Sigma have all boosted their stock values.

F

11. Standard deviation is a key factor in determining the acceptable number of defective units found in a population.

T

- 12. When a process is in control, variations in the results of the process are caused by nonrandom events.
- 13. Testing should be done during almost every phase of the system's development life cycle, not only just before the organization ships or hands over a product to the customer.
- 14. Deming wrote the first edition of the *Quality Control Handbook* in 1974, stressing the importance of top management commitment to continuous product quality improvement.

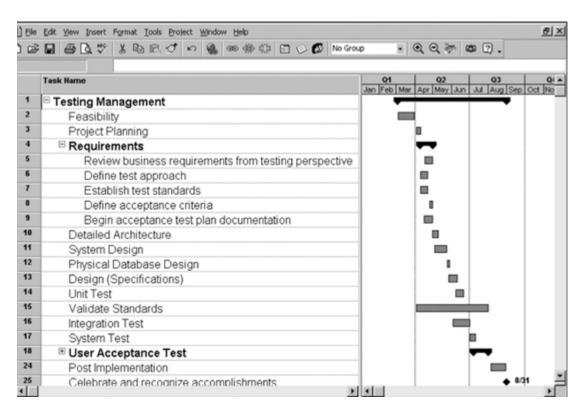
| 15. | ISO 9000 is a three-part, continuous cycle of planning, controlling, and documenting quality in an organization. $\ensuremath{T}$   |  |  |  |
|-----|---|--|--|--|
| 16. | A Brazilian newspaper reported that following ISO 9000 helped their home delivery service improve so much that the complaints dropped to a mere 6 percent of the total copies distributed. <b>F</b> |  |  |  |
| 17. | The Year 2000 (Y2K) issue provides a good example of appraisal costs. F   |  |  |  |
| 18. | Top management is primarily responsible for the high cost of nonconformance in information technology. $\textcolor{red}{\boldsymbol{T}}$  |  |  |  |
| 19. | DeMarco and Lister's "Coding War Games" study found no correlation between productivity and programming language, years of experience, or salary.  T  |  |  |  |
| 20. | At the adaptive level of the model developed by Micro-Frame Technologies, management collects and uses detailed measures of the effectiveness of project management.                                |  |  |  |
| MOD | MODIFIED TRUE/FALSE   |  |  |  |
| 1.  | The purpose of project <u>fitness</u> management is to ensure that the project will satisfy the needs for which it was undertaken quality   |  |  |  |
| 2.  | Project quality management involves <u>three</u> main processes.  |  |  |  |
| 3.  | T Design of <u>experiences</u> is a quality planning technique that helps identify which variables have the most influence on the overall outcome of a process                                      |  |  |  |
| 4.  | System <u>outputs</u> are the screens and reports the system generates  |  |  |  |
| 5.  | Rework decisions determine if the products or services produced as part of the project will be accepted or rejected Acceptance  |  |  |  |
| 6.  | Statistical <u>sampling</u> involves choosing part of a population of interest for inspection.  |  |  |  |
|     | T   |  |  |  |
| 7.  | Projects that use Six Sigma principles for quality control normally follow a(n) <u>twelve</u> -phase improvement process  |  |  |  |

#### five

| 8. | According to Pande, Neuman, and Cavanagh, the most critical and most commonly mishandled activity in |
|----|--|
|    | launching Six Sigma was staff selection  |
|    | project  |

9. In Six Sigma measures, <u>yield</u> represents the number of units handled correctly through the process steps.

Т



- 10. The figure above represents a(n) <u>flow</u> chart that shows testing tasks that are appropriate for different phases of the systems development life cycle. \_\_\_\_\_
- 11. Most Six Sigma principles are based on the plan-do-check-act model created by Deming.

т

- 12. <u>Crosby</u> developed the concept of quality circles and pioneered the use of Fishbone diagrams. <u>Ishikawa</u>
- 13. In TQC, or <u>Total</u> Quality Control, product quality is more important than production rates, and workers are allowed to stop production whenever a quality problem occurs.
- 14. <u>Crosby</u> developed the concept of TQC.

| <ul> <li>17. A large percentage of quality problems are associated with <u>financial</u>, not technic management</li> <li>18. <u>DeMarco</u> found that the average large company devoted more than 60 percent of development efforts to maintenance.</li> </ul> | The International Organization for <u>Supervision</u> (ISO) is a network of national institutes from 145 countries that work in partnership with international organizations, governments, industries, businesses, and consumer representativesStandardization |  |  |  |
|--|--|--|--|--|
| management  18. <u>DeMarco</u> found that the average large company devoted more than 60 percent of development efforts to maintenance.  T   |  |  |  |  |
| 18. <u>DeMarco</u> found that the average large company devoted more than 60 percent o development efforts to maintenance  | nical issues.  |  |  |  |
| 19. In the adaptive level of the maturity model developed by Micro-Frame Technological   | . <u>DeMarco</u> found that the average large company devoted more than 60 percent of its software development efforts to maintenance  |  |  |  |
|  | . In the <u>adaptive</u> level of the maturity model developed by Micro-Frame Technologies, project success is largely unpredictable and cost and schedule problems are common   |  |  |  |
| . <u>Acceptance</u> decisions are decisions that determine if the products or services produced as part of the project will be accepted or rejected  |  |  |  |  |
| MULTIPLE CHOICE  |  |  |  |  |
| <ul> <li>1. Currently, about percent of U.S. homes have computers.</li> <li>a. 25</li> <li>b. 50</li> <li>d. 95</li> </ul>   |  |  |  |  |
| 2. It took only years for fifty million people to use the Internet compared to t million people to use telephones.   | twenty-five years for fift   |  |  |  |
| a. two c. fifteen b. five d. twenty  |  |  |  |  |
| 3 is defined as the totality of characteristics of an entity that bear on its abili implied needs.   | ility to satisfy stated or   |  |  |  |
| <ul><li>a. Fitness</li><li>b. Conformance</li><li>c. Performance</li><li>d. Quality</li></ul>  |  |  |  |  |
| 4 for use means a product can be used as it was intended.  |  |  |  |  |
| <ul><li>a. Fitness</li><li>b. Conformance</li><li>d. Quality</li></ul>   |  |  |  |  |

| 5.  | Quality includes identifying which quathose standards.                           | lity sta                    | andards are relevant to the project and how to satisfy   |
|-----|--|-----------------------------|--|
|     | <ul><li>a. assurance</li><li>b. control</li></ul>                                |                             | <mark>planning</mark><br>development   |
| 6.  | Quality involves periodically evaluating satisfy the relevant quality standards. | g over                      | all project performance to ensure the project will   |
|     | <ul><li>a. assurance</li><li>b. control</li></ul>                                |                             | planning<br>development  |
| 7.  | quality standards while identifying ways to i                                    | mprov                       |  |
|     | <ul><li>a. assurance</li><li>b. control</li></ul>                                |                             | planning<br>development  |
| 8.  | is the ability of a product or service to unacceptable failures.                 | perfori                     | m as expected under normal conditions without  |
|     | <ul><li>a. Performance</li><li>b. Maintainability</li></ul>                      | c.<br><mark>d.</mark>       | Hardness<br><mark>Reliability</mark>   |
| 9.  | characteristics to those of other projects or p a. Development                   | roduct<br><mark>c.</mark>   | comparing specific project practices or product s within or outside the performing organization.  Benchmarking |
|     | b. Scope assessment  | d.                          | Planning   |
| 10. | or other stakeholder expectations.   |                             | mpliance with product requirements or specifications   |
|     | <ul><li>a. Rework</li><li>b. Acceptance</li></ul>                                |                             | Adjustment<br>Rejection  |
| 11. | VOC stands for of the Customer data. a. Volume                                   | c.                          | Value  |
|     | b. Voice   | d.                          | Variety  |
| 12. | Measure, Analyze,, and Control.  | nprove                      | ment process called DMAIC, which stands for Define   |
|     | <ul><li>a. Integrate</li><li>b. Invest</li></ul>                                 | c.<br><mark>d.</mark>       | Illuminate<br><mark>Improve</mark>   |
| 13. | Standard measures how much variation a. derivation                               | n exists<br><mark>c.</mark> | s in a distribution of data.<br>deviation  |
|     | b. distribution  | d.                          | difference   |

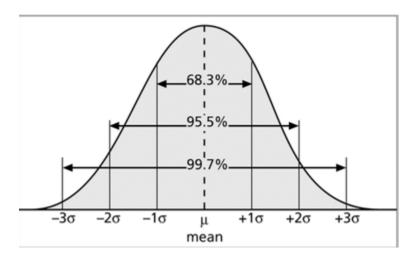
| 14. | A distribution is a bell-shaped curve that population.  | is sy                 | mmetrical regarding the average value of the  |
|-----|---|-----------------------|---|
|     | a. normal   | c.                    | negative  |
|     | b. regular  | d.                    | deviation   |
| 15. | Six 9s of quality is a measure of quality contro  | _                     |   |
|     | a. 1<br>b. 5  | c.<br>d.              |   |
|     |   |                       |   |
| 16. | A chart is a graphic display of data that il a. calendar  | llustı<br>c.          |   |
|     | b. control  |                       | procedural  |
|     |   |                       |   |
| 17. | The seven rule states that if seven data po<br>are all increasing or decreasing, then the proce |                       | in a row are all below the mean, above the mean, or eeds to be examined for nonrandom problems. |
|     | a. qualities  | c.                    | straight  |
|     | b. point  | <mark>d.</mark>       | <mark>run</mark>  |
| 18. | A(n) test is done to test each individual c   | omp                   | onent (often a program) to ensure it is as defect-free as                                       |
|     | possible.   | _                     |   |
|     | <ul><li>a. user</li><li>b. integration</li></ul>  | <mark>c.</mark><br>d. | <mark>unit</mark><br>system   |
|     | o. Integration  | u.                    | System  |
| 19. | testing ensures subsets of the entire syste   |                       | <del>-</del>  |
|     | a. User<br><mark>b. Integration</mark>  |                       | Unit<br>System  |
|     | o. Integration  | u.                    | oystem —  |
| 20. | testing focuses on the big picture to ensu  | re th                 |   |
|     | <ul><li>a. User</li><li>b. Integration</li></ul>  | c.<br><mark>d.</mark> | Unit<br><mark>System</mark>   |
|     | o. Integration  | u.                    | System  |
| 21. | acceptance testing is an independent test   | perf                  | ormed by end users prior to accepting the delivered   |
|     | system.<br><mark>a. User</mark>   |                       | Unit  |
|     | <ul><li>a. User</li><li>b. Integration</li></ul>  | c.<br>d.              | System  |
|     |   |                       | -9  |
| 22. | The Trilogy consists of quality improven  |                       |   |
|     | a. Deming<br><mark>b. Juran</mark>  |                       | Crosby<br>Gantt   |
|     | v. varan  | u.                    | Gaint   |
| 23. |   |                       | include all the costs of not doing the job right the first                                      |
|     |   | ıd m                  | achine hours, customer ill will and lost sales, and   |
|     | warranty costs. a. Deming   | <mark>C.</mark>       | Crosby  |

|     | b.                    | Juran  | d.                             | Gantt  |
|-----|-----------------------|--|--------------------------------|--|
| 24. | vol<br>a.             |  |                                | k leaders in a single company department who ove the effectiveness of work in their department.  assurances  circles   |
| 25. | <mark>a.</mark><br>b. | diagrams trace complaints about quality p<br><mark>Fishbone</mark><br>Gantt  | c.                             | lems back to the responsible production <sub>operations</sub> .<br>Quality<br>Crop   |
| 26. |                       | y concepts in the methods are that qua<br>o it and that quality is best achieved by mini<br>Crosby<br><mark>Taguchi</mark> | mizi<br>c.                     | should be designed into the product and not inspected ng deviation from the target value.  Deming Ishikawa   |
| 27. | a.                    | Design methods focus on eliminating def<br>thods.<br>Cost<br>Fishbone  | ects<br><mark>c.</mark><br>d.  | by substituting scientific inquiry for trial-and-error  Robust  Quality  |
| 28. | a.                    | an and many other quality experts argue tha investments time   | t the<br>c.<br><mark>d.</mark> | main cause of quality problems is a lack of attention leadership   |
| 29. | <mark>a.</mark>       | e cost of is the cost of conformance pluquality competition  |                                | leadership   |
| 30. | a.<br><mark>b.</mark> | means delivering products that meet requ<br>Performance<br>Conformance   |                                | nents and fitness for use. Superiority Availability  |
| 31. |                       |  | efor                           | e the customer receives the product is called a(n)   |
|     | cos<br>a.<br>b.       | prevention<br>appraisal  | <mark>c.</mark><br>d.          | internal failure<br>external failure   |
| 32. | res                   |  | relat                          | late payment of bills, inventory costs that are a direct ed to correcting a design error, premature failure of ite to cost.  internal failure external failure |

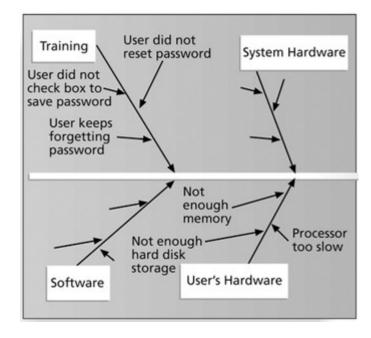
| 33. | 33. A cost that relates to all errors not detected and not corrected before delivery to the customer is called cost. |                       |  |
|-----|--|-----------------------|--|
|     | a. measurement   |                       | internal failure   |
|     | b. appraisal   | d.                    | external failure   |
| 34. | models are frameworks for helping organ  | nizat                 | ions improve their processes and systems.                                  |
|     | a. Maturity  |                       | Aging  |
|     | b. Management  | d.                    | Development  |
| 35. | Organizations at the maturity level have 6   | estal                 | olished basic project management processes to track                        |
|     | cost, schedule, and functionality for software p   |                       |  |
|     | a. initial   |                       | defined  |
|     | b. repeatable  | α.                    | managed  |
| 36. | At the maturity level, the software proces   |                       |  |
|     | activities are documented, standardized, and in  | itegr                 | ated into a standard software process for the                              |
|     | organization.<br>a. repeatable   | C                     | optimizing   |
|     | b. managed   | d.                    |  |
|     |  |                       |  |
| 37. | At the maturity level, organizations can e   | nab                   | le continuous process improvement by using                                 |
|     | quantitative feedback from the processes and fr  |                       |  |
|     | <ul><li>a. optimizing</li><li>b. repeatable</li></ul>  |                       | initial<br>defined   |
|     | o. Tepeatable  | u.                    | defined  |
| 38. | DeMarco found that the average large company   | y de                  | voted more than 60 percent of its software                                 |
|     | development efforts to   |                       |  |
|     | <ul><li>a. coding</li><li>b. debugging</li></ul>   | <mark>c.</mark><br>d. | <mark>maintenance</mark><br>design   |
|     | o. debugging   | u.                    | uesigii  |
| СОМ | PLETION  |                       |  |
|     |  |                       |  |
| 1.  | Functionality is the degree to which a system p  | erfc                  | orms its intended function.  |
|     |  |                       |  |
| 2.  | Features are the system's special characteristics  | s tha                 | at appeal to users.  |
| 2   | A  |                       |  |
| 3.  | learned that could improve performance on cur  |                       | ality management activities that help identify lessons or future projects. |
|     | 1  |                       | 1 J  |

4. Process adjustments correct or prevent further quality problems based on quality control measurements.

- 5. Pareto diagrams are histograms, or column charts representing a frequency distribution that help identify and prioritize problem areas.
- 6. In statistical sampling, the **certainty** factor denotes how certain you want to be that the data sampled will not include variations that do not naturally exist in the population.
- 7. Examples of VOC data include complaints, surveys, comments, and market research that represent the views and needs of the organization's customers.



8. The figure above illustrates the \_\_\_\_\_ormal\_\_\_\_\_ curve.



| 9.   | The figure above is an example of a(n) cause-and-effect diagram.  |
|------|---|
| 10.  | The Award is given by the President of the United States to recognize companies that have achieved a level of world-class competition through quality management.                                   |
| 11.  | The cost of nonconformance means taking responsibility for failures or not meeting quality expectations.  |
| 12.  | Prevention cost is the cost of planning and executing a project so that it is error-free or within an acceptable error range.   |
| 13.  | Appraisal cost is the cost of evaluating processes and their outputs to ensure that a project is error-free or within an acceptable error range.  |
| 14.  | The Software Quality Function Deployment (SQFD) model focuses on defining user requirements and planning software projects.   |
| 15.  | The Capability Maturity Model (CMM) is a five-level model laying out a generic path to process improvement for software development in organizations.   |
| 16.  | At the level of the model developed by Micro-Frame Technologies, the project management process is described as disorganized and occasionally even chaotic.   |
| 17.  | At the level of the model developed by Micro-Frame Technologies, there are standardized, documented project management processes and systems that are integrated into the rest of the organization. |
| 18.  | A(n) maturity model is a framework for helping organizations improve their processes and systems.   |
| ESSA | $\mathbf{Y}$  |
| 1.   | What types of projects make good Six Sigma projects?  |
| 2.   | Describe the work and preliminary findings of William Ibbs and Young H. Kwak.   |
| 3.   | How can software applications be used in project quality management?  |

# **Chapter 9: Project Human Resource Management**

## TRUE/FALSE

| 1.  | In the 1990s, there was a growing surplus of personnel in information technology. <b>F</b>   |
|-----|--|
| 2.  | Global e-commerce has grown in the new millennium but not as much as the global high-tech industry.  |
| 3.  | More and more, organizations are changing their benefits policies to meet worker needs. T  |
| 4.  | David McClelland proposed that an individual's specific needs are learned over time. T   |
| 5.  | New project managers often overemphasize their position. T   |
| 6.  | Without rapport, people cannot start communicating. T  |
| 7.  | Smaller IT projects usually have subproject managers. <b>F</b>   |
| 8.  | An OBS brings together the information in a RAM and the information in a WBS.  |
| 9.  | Schedules tend to focus primarily on time rather than on both time and resources. <b>T</b>   |
| 10. | Resources are used best when they are leveled. T   |
| 11. | When resources are used on a less constant basis, they require less management. T  |
| 12. | Automatic leveling often extends the project's completion date. T  |
| 13. | It is often more economical to hire new people who already possess certain skills than it is to train current employees in those areas. <b>F</b> |
| 14. | In today's complex IT environments, it is usually easier to replace a person than a piece of equipment.  |

15. According to Maslow, once a need is satisfied, it no longer serves as a motivator. T

| 16. | Leveled resources require more management. <b>F</b>   |
|-----|---|
| 17. | Teamwork helps people work more effectively to achieve project goals. T   |
| 18. | Internet and e-commerce is still climbing in the global economy, despite lower spending in most of the developed world.   |
| 19. | The United States' overall percentage of global spending is rising.   |
| MOD | IFIED TRUE/FALSE  |
| 1.  | The global high-tech industry generated around \$2.1 <u>billion</u> in 1999F- trillion  |
| 2.  | The number of women entering the information technology field peaked in <u>1994</u> and has been steadily declining ever since  |
| 3.  | The project human resource management process, team <u>acquisition</u> , involves building individual and group skills to enhance project performanceF - development                                |
| 4.  | <u>Intrinsic</u> motivation causes people to participate in an activity for a reward or to avoid a penaltyF-<br>Extrinsic_  |
| 5.  | The highest level of Maslow's hierarchy is considered a(n) growth need, or a self-actualization need. T   |
| 6.  | According to Herzberg, factors such as achievement and advancement are work <u>motivators</u> . T   |
| 7.  | McGregor's Theory $\underline{Y}$ is sometimes referred to as classical systems theory. $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ |
| 8.  | Reward power involves using incentives to induce people to do thingsT   |
| 9.  | Covey's first three habits help people achieve <u>interdependence</u> T   |

| 10. | Rapport is a relation of harmony, conformity, accord, or affinity T  |
|-----|--|
| 11. | Deputy project managers assist project managers as needed and fill in for them in case of absence.  T  |
| 12. | Resource <u>loading</u> is a technique for resolving resource conflicts by delaying tasks. <u>F</u> - <u>leveling</u>  |
| 13. | A(n) extrovert draws energy from inside herselfF - introvert   |
| 14. | According to the Wilson Learning Styles Profile, " <u>drivers</u> " are reactive and people-orientedF- "amiables" _  |
| 15. | According to the Wilson Learning Styles Profile, "analyticals" are reactive and task-oriented. T   |
| 16. | Power is the potential ability to influence behavior to get people to do things they would not otherwise do T  |
| 17. | <u>Computers</u> are the most important assets in organizations and on projectsF - People  |
| 18. | Theory $\underline{Z}$ says that workers can be trusted to do their jobs to the fullest, as long as management can be trusted to look out for their well-being. $\underline{\hspace{1cm}}$ |
| 19. | There are <u>five</u> main types of power  |
| 20. | In McClelland's schema, people with a high need for <u>affiliation</u> desire peaceful relationships with other people and need to feel accepted by others T                               |
| MUL | TIPLE CHOICE   |
| 1.  | According to a December 2002 report, hiring by non-IT companies outpaces hiring by IT companies by a ratio of to one. a. three c. nine b. six d. twelve                                    |
| 2.  | ICT spending stands for information and technology spending. a. computer c. collapsible  |

|     | b. communication  | d.    | contact  |
|-----|---|-------|--|
| 3.  | Just under percent of the graduates earning. a. 20 b. 40                      | c.    | achelor's degrees in computer related fields are female.<br>60<br>80 |
| 4.  | According to the ACM-W co-chair, girls and w used in                          | ome   | en are not turned off by technology, but by how it is                |
|     | <ul><li>a. movies</li><li>b. networking</li></ul>                             |       | society<br>business  |
| 5.  | Project human resource management involves a. two b. three                    | c.    | primary processes. four five   |
| 6.  | According to Maslow, the most basic human not a. safety b. social             | c.    | s  physiological self-actualization                                  |
| 7.  | Maslow's hierarchy of needs is organized as a( a. pyramid b. chain-of-command | c.    | circle inverted pyramid  |
| 8.  | According to Maslow, you can begin meeting y your needs.                      | our/  | esteem needs as soon as you have finished meeting                    |
|     | <ul><li>a. safety</li><li>b. self-actualization</li></ul>                     |       | physiological<br>social  |
| 9.  | Herzberg referred to factors that cause job satis                             |       |  |
|     | <ul><li>a. hygiene</li><li>b. motivators</li></ul>                            |       | self-actualizers<br>starters   |
| 10. | The Apperception Test (TAT) is a tool that categories.                        | ıt me | easures individual needs using McClelland's                          |
|     | <ul><li>a. Theoretical</li><li>b. Technological</li></ul>                     |       | Thematic Testing   |
| 11. | The main categories of needs, according to Mca. accolade b. hygiene           | c.    | land, are achievement,, and power. safety affiliation                |
| 12. | McGregor's Theory Y is sometimes referred to                                  |       | relations theory.  |

|     | b.      | classical  | d.    | need   |
|-----|---------|--|-------|--|
| 13. | Th      | eory Z is based on the approach to mot<br>Scandinavian                                 |       | ing workers.<br>American                     |
|     |         | Chinese  |       | Japanese                                     |
| 14. |         | amhain and Wilemon identified influer  |       | pases available to project managers.  nine   |
|     |         | six  |       | twelve                                       |
| 15. |         | amhain and Wilemon found that when projectly, their projects were more likely to succe |       | anagers used work challenge and to influence |
|     | _       | penalty  | C.    | authority                                    |
|     |         | expertise  |       | money  |
| 16. |         | power is based on an individual's persona  | ıl ch | arisma                                       |
| -0. |         | Referent   |       | Expert                                       |
|     | b.      | Legitimate   |       | Reward                                       |
| 17. |         | vey's final habit is   |       |  |
|     |         | be proactive   | c.    | think win/win                                |
|     | b.      | sharpen the saw  | d.    | synergize                                    |
| 18. |         | listening is listening with the intent to und  |       |  |
|     |         | Synergistic  |       | Empathic                                     |
|     | b.      | Endemic  | d.    | Sympathetic                                  |
| 19. |         | a process is, it often takes more than on  |       |  |
|     |         | synergistic  |       | iterative                                    |
|     | D.      | hierarchical   | a.    | organic                                      |
| 20. |         | responsibility matrix (RAM) maps the   |       |  |
|     | a.<br>L | aptitude<br>affiliation  |       | association                                  |
|     | b.      | allilialiUli   | u.    | assignment                                   |
|     | г       | 111111111  | 2 1   | 14115116117118                               |

|                              | 1.1.1 | 1.1.2 | 1.1.3 | 1.1.4 | 1.1.5 | 1.1.6 | 1.1.7 | 1.1.8 |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Systems Engineering          | R     | RP    |       |       |       |       | R     |       |
| Software Development         |       |       | RP    |       |       |       |       |       |
| Hardware Development         |       |       |       | RP    |       |       |       |       |
| Test Engineering             | Р     |       |       |       |       |       |       |       |
| Quality Assurance            |       |       |       |       | RP    |       |       |       |
| Configuration Management     |       |       |       |       |       | RP    |       |       |
| Integrated Logistics Support |       |       |       |       |       |       | Р     |       |
| Training                     |       |       |       |       |       |       |       | RF    |

- 21. The figure above is an example of a(n) \_\_\_\_\_.
  - a. RAM

c. OBS

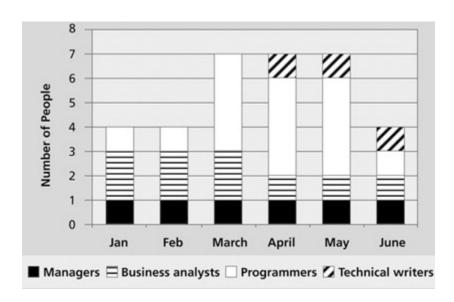
b. WBS

- d. OC
- 22. RACI charts show Responsibility, \_\_\_\_\_, Consultation, and Informed roles for project stakeholders.
  - a. Affiliation

c. Authority

b. Accountability

d. Accessibility



- 23. The figure above is an example of a(n) \_\_\_\_\_.
  - a. RACI chart

c. OBS

b. RAM

- d. resource histogram
- 24. The main outputs of the \_\_\_\_\_ process are project staff assignments and a project team directory.
  - a. staff acquisition

c. human resource management

b. team development

- d. organizational planning
- 25. An important part of staffing plans is maintaining a thorough and accurate inventory of employees' \_\_\_\_\_.
  - a. hardware

c. software

b. skills

- d. education
- 26. \_\_\_\_ means more resources than are available are assigned to perform work at a given time.
  - a. Mirroring

c. Overallocation

b. Resource loading

- d. Synergy
- 27. The main purpose of resource leveling is to create a \_\_\_\_\_ distribution of resource usage.
  - a. smoother

c. slack

b. larger

d. crisis

| 28. | When resource leveling using histograms, you should be employing the strategy from the computer game, |   |          |  |  |  |  |  |  |
|-----|---|---|----------|--|--|--|--|--|--|
|     |   | Quake<br>Space Invaders                               |          | Pong<br>Tetris                                     |  |  |  |  |  |
| 29. | Tra   | nining should be provided in a fashion.               | C        | more-is-more                                       |  |  |  |  |  |
|     |   | just-in-time  |          | traditional  |  |  |  |  |  |
| 30. |   | e Myers-Briggs Type Indicator was first dev<br>Piaget | _        | oed based on's theory of psychological type.  Jung |  |  |  |  |  |
|     |   | Maslow  |          | Freud  |  |  |  |  |  |
| 31. |   | the MBTI, the other side of the Feeling dime          |          |  |  |  |  |  |  |
|     |   | Thinking<br>Intuition                                 | c.<br>d. | Sensation<br>Perception                            |  |  |  |  |  |
| 32. | Th  | -   |          | nformation systems developers were introverts.  75 |  |  |  |  |  |
|     |   | 50  |          | 100  |  |  |  |  |  |
| 33. |   | e most productive teams should be limited to          |          |  |  |  |  |  |  |
|     |   | 1 to 3<br>3 to 7                                      |          | 7 to 10<br>10 to 14                                |  |  |  |  |  |
| 34. |   | e second stage of the basic team-building sta         | _        |  |  |  |  |  |  |
|     |   | forming<br>performing                                 |          | norming storming                                   |  |  |  |  |  |
| 35. | Th  | e third stage of the basic team-building stage        |          |  |  |  |  |  |  |
|     | a.<br>b.  | forming<br>performing                                 |          | norming<br>storming                                |  |  |  |  |  |
| 36. |   | ject and the total number of hours they are s         |          |  |  |  |  |  |  |
|     | a.<br>b.  | usage<br>development                                  | с.<br>а  | matrix<br>project                                  |  |  |  |  |  |
|     | υ,  | development   | u.       | project  |  |  |  |  |  |
| 37. | If s  |   | nati     | cally puts a(n) in the column to the left of their |  |  |  |  |  |
|     | a.  | star  |          | plus sign  |  |  |  |  |  |
|     | b.  | exclamation point                                     | d.       | minus sign   |  |  |  |  |  |

|   | Mar 16  | Mar 23  | Mar 30  | Apr 6   | Apr 13  |
|---|---------|---------|---------|---------|---------|
| Joe Franklin  | 120 hrs |
| Packaging   | 40 hrs  |
| Datasheets  | 40 hrs  |
| Reseller kits                                       | 40 hrs  |
| Rich Anderson                                       | 16 hrs  | 40 hrs  | 40 hrs  | 40 hrs  | 40 hrs  |
| Working Model                                       | 16 hrs  | 40 hrs  | 40 hrs  | 40 hrs  | 40 hrs  |
| Mark Smith Develop creative briefs Develop concepts |         |         |         |         |         |
| Lisa Adams<br>Launch planning                       |         |         |         |         |         |
| Intern  | 34 hrs  | 40 hrs  | 40 hrs  | 40 hrs  | 40 hrs  |
| Working model                                       | 34 hrs  | 40 hrs  | 40 hrs  | 40 hrs  | 40 hrs  |
| Total   | 170 hrs | 200 hrs | 200 hrs | 200 hrs | 200 hrs |

|     | es olking model                                | 54 III 5        | 40 1113     | 40 111 5               | 40 183                           | 40 185              |                |                   |      |
|-----|--|-----------------|-------------|------------------------|----------------------------------|---------------------|----------------|-------------------|------|
|     | Total  | 170 hrs         | 200 hrs     | 200 hrs                | 200 hrs                          | 200 hrs             |                |                   |      |
| 38. | The figure above shea. organizational cb. RACI |                 | _ report.   |                        | workflor                         | w breakdow<br>usage | n              |                   |      |
| 39. | factors will can<br>a. Synergy<br>b. Hygiene   | ıse dissatisfa  | ction if no | с.                     | t, but do i<br>Self-acti<br>RACI |                     | workers to o   | do more if preser | nt.  |
| COM | PLETION  |                 |             |                        |                                  |                     |                |                   |      |
| 1.  | Human resource project roles, respon           | sibilities, and | l reporting | planning<br>g relatior | involves<br>iships.              | identifying,        | assigning, ar  | nd documenting    |      |
| 2.  | The project human r<br>personnel assigned t    |                 |             |                        | taffa                            | cquisition          | involve        | es getting the ne | edec |
| 3.  | Intrinsic                                      |                 | motivati    | on cause               | s people t                       | o do sometl         | ing for their  | own enjoyment.    | •    |
| 4.  | The bottom four nee                            | ds in Maslov    | v's hierar  | chy are re             | eferred to                       | as                  | _deficiency_   | need              | ls.  |
| 5.  | Herzberg labeled fac                           | ctors that cau  | se job dis  | satisfacti             | on                               | hygiene_            |                | factors.          |      |
| 6.  | Coercive                                       | pc              | wer is ge   | tting peo              | ple to do                        | things based        | d on a positio | on of authority.  |      |
| 7.  |  | is the co       | oncept tha  | at the wh              | ole is equ                       | al to more t        | han the sum    | of its parts.     |      |
| 8.  | conversation.                                  | is the p        | rocess of   | matching               | g certain l                      | oehaviors of        | the other per  | rson in a         |      |

| 9.   | RFP stands for Request forproposal  |
|------|---|
| 10.  | An organizationalbreakdown structure (OBS) is a kind of organizational chart showing which organizational units are responsible for which work items. |
| 11.  | A(n)staffing management plan describes when and how people will be added to and removed from the project team.  |
| 12.  | A resource shows the number of resources assigned to a project over time.   |
| 13.  | Resourceloading refers to the amount of individual resources required by an existing schedule over specific time periods.                             |
| 14.  | According to MBTI,type people take deadlines seriously.   |
| 15.  | According to the Wilson Learning Styles Profile, "drivers" are proactive andoriented.   |
| 16.  | The Wilson Learning Social Styles Profiles are based on the traits of assertiveness and   |
| 17.  | Thamhain and Wilemon found project failure to be associated with using too much influence by authority money, orpenalty                               |
| ESSA | Y   |
| 1.   | Describe people with a high need for achievement, according to McClelland.  |
| 2.   | Describe coercive power. Give an example.   |
| 3.   | Describe Covey's habit of putting first things first.   |

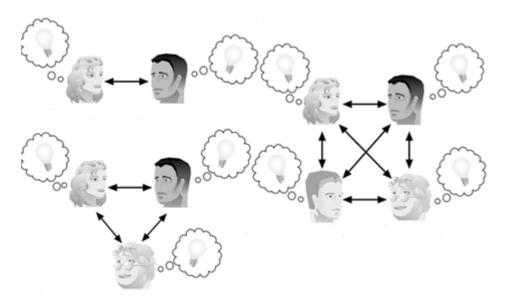
# **Chapter 10: Project Communications Management**

#### TRUE/FALSE

- 1. Because more and more people use computers, the gap between users and developers decreases as technology advances. **F**
- 2. Many studies have shown that information technology professionals need soft skills such as speaking, writing, and listening just as much or even more than technical skills. **T**
- 3. The problem with using existing communication channels is that project managers, top management, and project team members, as well as other stakeholders, all have different communication needs. **T**
- 4. Technical professionals tend to rely on informal communication techniques like verbal communication. F
- 5. Generally speaking, different people respond positively to different levels or types of communication. T
- 6. Electronic communications are almost always more effective than face-to-face meetings, particularly for sensitive information. T
- 7. Adding more people to a project that is behind schedule often causes more set-backs. T
- 8. Formal acceptance should only be provided on internal projects. T
- 9. The withdrawal approach is the least desirable conflict-handling mode. T
- 10. Research indicates that project managers favor using *compromise* for conflict resolution over the other four modes. F Confrontation
- 11. Emotional conflict, which stems from personality clashes and misunderstandings, often depresses team performance. T
- 12. Individual employees are less likely to voluntarily enroll in classes on the latest technology than in classes that develop their soft skills. **F**
- 13. Usually, meetings are most effective with the minimum number of participants possible, especially if decisions must be made. T

| 14. | Progress reports focus on accomplishments during a specific time period while status reports focus on where the project stands at a certain point in time. T  |
|-----|---|
| 15. | A project charter is less formal than a letter of agreement. T  |
| 16. | In the early 1980sbefore most people ever used personal computersthe U.S. Air Force had already developed standard forms for reporting project progress information, outlines for developing project final reports, and forms and procedures for creating project Gantt charts. T |
| 17. | It is <b>not</b> good practice to share the responsibility for project communications management with the entire project team because this creates even more problems. <b>F</b>   |
| 18. | Creating handouts and visual aids does not usually help a meeting run more effectively because it slows the process down. $\mathbf{F}$  |
| 19. | According to the <i>Journal of Information Systems Education</i> , IS professionals engage in numerous verbal communication activities that are informal in nature, brief in duration, and with a small number of people at a time. <b>F</b>                                      |
| 20. | A sensing person would want to understand how something fits into the big picture, while an intuitive person would prefer to have more focused, step-by-step details. <b>F</b>  |
| MOD | IFIED TRUE/FALSE  |
| 1.  | A communications <u>maintenance</u> plan is a document that guides project communicationsF - management   |
| 2.  | A stakeholder communications <u>analysis</u> describes what kinds of information will be distributed to which stakeholders  |
| 3.  | Information regarding the content of essential project communications comes from the work <u>bulletin</u> structure (WBS)F - breakdown  |
| 4.  | Many experts believe that the difference between good project managers and excellent project managers is their ability to nurture relationships and use empathic <u>motivational</u> skillsF - <u>listening</u>   |
|     |   |

| 5.  | In his popular book, <i>The Mythical Man-month</i> , Brooks illustrates the concept that people are not <a href="interchangeable">interchangeable</a> parts  |
|-----|--|
| 6.  | Project <u>archives</u> include a complete set of organized project records that provide an accurate history of the projectT   |
| 7.  | Formal <u>closure</u> is documentation that the project's sponsor or customer signs to show they have accepted the products of the projectF - acceptance   |
| 8.  | Blake and Mouton delineated <u>five</u> basic modes for handling conflictsF  |
| 9.  | <u>Compromise</u> mode is sometimes called the problem-solving modeF - Confrontation   |
| 10. | The <u>forcing</u> mode can be viewed as the win-lose approach to conflict resolution.  T  |
| 11. | When using the <u>compromise</u> mode, the project manager deemphasizes or avoids areas of differences and emphasizes areas of agreementF - smoothing  |
| 12. | Core competencies for developing collaboration skills include conflict resolution, negotiation, and mediation T  |
| 13. | To make preparing project communications easier, project managers need to provide examples and templates for common project communications items T   |
| 14. | Class projects should use a letter of <u>acceptance</u> instead of a contract or official project charter.   |
| 15. | Communication <u>tools</u> include e-mail, project management software, groupware, fax machines, telephones, teleconferencing systems, document management systems, and word processing software.                          |
| 16. | Communication <u>strategies</u> include reporting guidelines and templates, meeting ground rules and procedures, decision-making processes, problem-solving approaches, conflict resolution and negotiation. F- techniques |



- 17. Based on the figure above, with 4 people, there are <u>16</u> channels of communication. \_\_\_\_\_F- 20\_\_\_\_\_

#### **MULTIPLE CHOICE**

| 1. | Many experts agree that the greatest threat to the success of any project, especially information |
|----|---|
|    | technology projects, is a failure to  |

- a. work
- c. organize

b. profit

- d. communicate
- 2. \_\_\_\_ involves determining the information and communications needs of the stakeholders.
  - a. Performance reporting
- c. Communications planning
- b. Information distribution

- d. Administrative closure
- 3. \_\_\_\_ involves making needed information available to project stakeholders in a timely manner.
  - a. Performance reporting

c. Communications planning

b. Information distribution

- d. Administrative closure
- 4. \_\_\_\_ involves collecting and disseminating performance information, including status reports, progress measurement, and forecasting.
  - a. Performance reporting

c. Communications planning

b. Information distribution

- d. Administrative closure
- 5. \_\_\_\_ involves generating, gathering, and disseminating information to formalize phase or project completion.

|     |     | Communications planning Information distribution        |      | Performance reporting Administrative closure          |
|-----|-----|---|------|---|
| 6.  |     | mmunicating includes many different dimen               |      |   |
|     |     | programming   |      | hiring  |
|     | b.  | writing   | d.   | meeting   |
| 7.  | ant | itrust suit against Microsoft.                          |      | es from the 1998 Justice Departments high-profile,    |
|     |     | meetings  |      | e-mail  |
|     | b.  | software  | d.   | project management                                    |
| 8.  |     | ndies show that less than percent of cornmunicated.     | nmu  | inications consist of the actual content or words     |
|     | a.  |   | c.   |   |
|     | b.  | 5   | d.   | 10  |
| 9.  | cor | nmunicate.  |      | rs forces people to focus on what they really need to |
|     |     | Stand-up  |      | Oral communication                                    |
|     | b.  | Concerns  | d.   | Consultation  |
| 10. |     | you were trying to assess commitment of prodium to use. | ject | stakeholders, a(n) would be the most appropriate      |
|     |     | telephone call  |      | meeting   |
|     | b.  | e-mail  | d.   | memo  |
| 11. | A(ı | n) is an excellent way to give complex                  |      |   |
|     |     | hard copy   |      | telephone call  |
|     | b.  | meeting   | d.   | e-mail  |
| 12. |     | n) is a excellent medium for encouragi                  | _    | <del>-</del>  |
|     |     | e-mail  |      | hard copy   |
|     | b.  | voice mail  | d.   | web-site  |
| 13. |     | voice mail is a(n) way to build consens                 |      |   |
|     |     | excellent   |      | inappropriate   |
|     | b.  | adequate  | d.   | reasonable  |
| 14. | The | e equation for calculating the number of con            | ımu  |   |
|     | a.  | (n-1)/2   | c.   |   |
|     | b.  | (n-1)(n-2)  | d.   | n(n-1)/2  |

| 15. | Many information technology professionals sponsors, other team members, or other proj  |              | on projects where they never meet their project keholders. |
|-----|--|--------------|--|
|     | a. scattered   |              | collaborative  |
|     | b. virtual   | d.           | moving   |
| 16. | address where the project stands in term   |              |  |
|     | a. Progress reports  |              | Change requests  |
|     | b. Forecasts   | d.           | Status reports   |
| 17. | describe what the project team has acco  | -            |  |
|     | a. Progress reports  |              | Change requests  |
|     | b. Forecasts   | a.           | Status reports   |
| 18. | predict future project status and progre   |              | -  |
|     | a. Progress reports  |              | Change requests  |
|     | b. Forecasts   | d.           | Status reports   |
| 19. |  |              | e those records reflect final specifications, analyze      |
|     | project effectiveness, and archive informational. Status review meetings   | n for f      | uture use.   |
|     | b. Project integration   | c.<br>d      | Administrative closure Face-to-face discussions            |
|     | o. Project integration   | u.           | Tuce to face discussions                                   |
| 20. | reflective statements written by project   |              |  |
|     | <ul><li>a. Project archives are</li><li>b. Formal acceptance is</li></ul>  | с.<br>д      | A status review is<br>Lessons learned are                  |
|     | b. Tornial acceptance is   | u.           | Ecssons rearred are  |
| 21. | When using the mode, project manage that allows affected parties to work through   |              | etly face a conflict using a problem-solving approach      |
|     | a. confrontation   |              | forcing  |
|     | b. compromise  |              | smoothing  |
|     | T. T. T.   |              | 0  |
| 22. | With the mode, project managers barga satisfaction to all the parties in a dispute.  | ain and      | search for solutions that bring some degree of             |
|     | a. confrontation   | C.           | forcing  |
|     | b. compromise  |              | withdrawal   |
| 22  | Management and the second seco | <i>t</i> : • |  |
| 23. | a. confrontation   |              | their management style might favor the mode.<br>forcing    |
|     | b. withdrawal  |              | smoothing  |
|     | o. manana  | u.           |  |
| 24. | When using the mode, project manage  |              | -  |
|     | <ul><li>a. confrontation</li><li>b. compromise</li></ul>   |              | forcing<br>withdrawal                                      |
|     |  | u.           | TO A CARACTER OF THE                                       |

| 25. | A meeting held at the beginning of a project or project objectives is called a(n) meeting.  | proj  | ect phase where all major project stakeholders discuss |  |  |
|-----|---|-------|--|--|--|
|     | <ul><li>a. starter</li><li>b. kickoff</li></ul>   |       | introductory<br>formative                              |  |  |
| 26. | A project description should include the project objective, scope, assumptions, cost information, and   |       |  |  |  |
|     | information. a. schedule  | C.    | management   |  |  |
|     | b. funding  |       | staffing   |  |  |
| 27. | A letter of provides similar information as   |       |  |  |  |
|     | a. atonement  |       | agreement  |  |  |
|     | b. analysis   | d.    | administration   |  |  |
| 28. | For a long report, it is also a good idea to incluimportant information in the report.  | de a  | one-page summary that highlights the most              |  |  |
|     | a. analytical   |       | descriptive  |  |  |
|     | b. administrative   | d.    | executive  |  |  |
| 29. | highlight significant events, such as havin major deliverables.   | ng th | e letter of agreement signed, or the completion of     |  |  |
|     | a. Markers  |       | Reports  |  |  |
|     | b. Milestones   | d.    | Audits   |  |  |
| 30. | In the past few years, more and more project teams have started putting all or part of their project information, including various templates, on project |       |  |  |  |
|     | a. e-mails  |       | videos   |  |  |
|     | b. reports  | d.    | Web sites  |  |  |
| 31. | A communications is a set of tools, techniques, and principles that provides a foundation for the effective transfer of information among people.         |       |  |  |  |
|     | a. infrastructure   | C.    | atlas  |  |  |
|     | b. deliverable  | d.    | set-up   |  |  |
| 32. | Communication include providing an enviolence of the communication and agreed-upon work ethic.  |       |  |  |  |
|     | a. techniques   |       | strategies   |  |  |
|     | b. principles   | d.    | tools  |  |  |
| 33. | A "digital system" allows for rapid move customers, suppliers, and other business partne  |       | t of information inside a company as well as with      |  |  |
|     | a. communications   | с.    | consolidation  |  |  |
|     | b. transference   | d.    | nervous  |  |  |

| 34. | time.  According to Gartner Inc, more than percent of people telecommute or work remotely at least part- |   |                    |   |  |  |
|-----|--|---|--------------------|---|--|--|
|     | a.<br>b.   | 37<br>47  |                    | 57<br>67  |  |  |
| 35. | VP   | N stands for virtual network.   |                    |   |  |  |
|     |  | personal  |                    | private   |  |  |
|     | b.   | political   | d.                 | provision   |  |  |
| 36. |  | are now a common tool for presenting vio  | deo,               | graphics, sound, voice, and participant feedback live   |  |  |
|     | a.   | Telecasts   | c.                 | Hyperlinks  |  |  |
|     | b.   | Webcasts  | d.                 | Promotions  |  |  |
| 37. | con  |   |                    | duct, management provides a centralized and allows the user to evaluate and prioritize activities   |  |  |
|     | a.   | resource  |                    | portfolio   |  |  |
|     | b.   | product   | d.                 | account   |  |  |
| 38. | kno<br>red<br>a.   |   | prov<br>ices<br>c. | Management product enables an organization to share recommunications and decision making, eliminate for project management.  software management portfolio management |  |  |
|     |  |   |                    | F   |  |  |
| 39. |  | e project plan and work results are importan  | t                  | performance reporting.  |  |  |
|     |  | results of  |                    | outputs of  |  |  |
|     | b.   | decisions from  | d.                 | inputs to   |  |  |
|     |  | ministrative consist(s) of verifying and lect final specifications.                             | d do               | cumenting project results and ensuring that records   |  |  |
|     | a.   | acceptance  |                    | contacts  |  |  |
|     | b.   | closure   | d.                 | directives  |  |  |
| 41. |  | s always a good idea to include section cial considerations or details related to each customer |                    | ith stakeholder communication analyses to record keholder, document, meeting, and so on. inventory  |  |  |
|     |  | comment   | d.                 | programming   |  |  |
|     | υ.   | Comment   | u.                 | h. ob. m. m. m. p   |  |  |
| 42. |  | rou want to praise a project team member fo eiving that praise in private.                      | r do               | ing a good job, a(n) would be more comfortable  |  |  |
|     | a.   | introvert   |                    | sensing person  |  |  |
|     | b.   | extrovert   | d.                 | feeling person  |  |  |

# COMPLETION

| 1.  | The 1995 Standish Group study found the three major factors related to information technology project success were user involvement, executive management support, and a clear statement ofrequirements     |
|-----|---|
| 2.  | A production that tells stakeholders when to expect different information and when they need to attend key meetings is an important part of the communications management plan.                             |
| 3.  | The stakeholder communications analysis serves as a goodstarting point for information distribution.  |
| 4.  | Oral communication via meetings and informal talks helps bring important informationpositive or negativeout into the open.  |
| 5.  | A(n) is an excellent way to address negative behavior.  |
| 6.  | Geographic location andcultural background affect the complexity of project communications.   |
| 7.  | Some cultures reserve written documents forblinding commitments.  |
| 8.  | Many program and project managers hold monthlystatus review meetings to exchange important project information and motivate people to make progress on their parts of the project.                          |
| 9.  | If there is a(n) of the organization, good project archives could provide valuable information very quickly.  |
| 10. | Stephen Covey created the paradigms ofshifts  |
| 11. | Conformance to the values or ethical standards of a group is calledgroupthink   |
| 12. | When scheduling a meeting, it is important to makelogistical arrangements by booking an appropriate room, having necessary equipment available, and providing refreshments or entire meals, if appropriate. |

| 13. |                  | mail is not an appropriate medium for assessing commitment, building nsus, mediating a conflict, resolving a misunderstanding, making an ironic statement, conveying a nce document, reinforcing one's authority, or maintaining confidentiality. |
|-----|------------------|---|
|     | I.               | Project description   |
|     | п.               | Project proposal and backup data (request for proposal, statement of work, proposal correspondence, and so on)  |
|     | ш.               | Original and revised contract information and client acceptance documents   |
|     | IV.              | Original and revised project plans and schedules (WBS, Gantt charts and network diagrams, cost estimates, communications management plan, etc.)   |
|     | v.               | Design documents  |
|     | VI.              | Final project report  |
|     | VII.             | Deliverables, as appropriate  |
|     | VIII.            | Audit reports   |
|     | IX.              | Lessons-learned reports   |
|     | X.               | Copies of all status reports, meeting minutes, change notices, and other written and electronic communications  |
| 14. | The ta           | able above displays a list offinal project documentation items.   |
| 15. | specif<br>fashio | inserted in templates help to provide the most recent project plans, Gantt charts ications, meeting information, change requests, and so on to all or selective stakeholders in a timely on.  |
| 16. |                  | ct teams can develop project Web sites using Webauthoringtools, such as osoft FrontPage or Macromedia Dreamweaver.  |
| 17. | The _<br>name    | home page for the project site should include contact information, such as and e-mail addresses for the project manager and Webmaster.  |
| 18. |                  | es show that providing a quiet work environment and a dedicated workspace <a href="mailto:crease">crease</a> programmer productivity.   |
| 19. | A(n) comm        | <u>stakeholder</u> analysis for project communications helps determine nunications needs for different people involved in a project.  |

| 20. |           | methods for obtaining information address the issue of who can see a dra | ıft |
|-----|-----------|--|-----|
|     | document. |  |     |

#### **ESSAY**

- 1. What is a lessons learned report? When should it be completed? Why is it important?
- 2. What is the function of oral communication in project communications management?
- 3. What does communications skills training usually consist of and why is it important?

# **Chapter 11: Project Risk Management**

#### TRUE/FALSE

1. In many ways, risk management is like a form of insurance.

True

- 2. There are ten major processes involved in risk management.
  - False: There are four:
  - Management plan
  - Identification
    - Qualitative risk analysis
    - Quantitative risk analysis
  - Risk response planning
  - Risk monitoring and control
- 3. The Unfinished Voyages study showed that competent staff was the most important of the project's success criteria factors.

true

4. On the McFarlan questionnaire, high scores warn you that high risk is involved.

True

- 5. The issue of whether hardware, software, and networks function properly is a market risk question. false
- 6. A review of historical information related to risks on similar projects is an important input to the risk identification process.

true

7. Experiencing unenforceable conditions or contract clauses is a risk condition associated with the communications knowledge area.

true

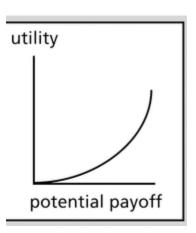
- 8. The psychology literature shows that individuals, working alone, produce a greater number of ideas than the same individuals produce through brainstorming in small face-to-face groups. false
- 9. In all projects for which you want a profit, the lower the EMV, the better. false
- 10. Secondary risks are a direct result of implementing a risk response.
- 11. You cannot use Monte Carlo analysis to estimate project costs.
- 12. Group effects, such as fear of social disapproval, the effects of authority hierarchy, and domination of the session by one or two very vocal people often affect brainstorming by inhibiting idea generation for many participants.

  true
- 13. Substandard design, materials, or workmanship are risk conditions associated with the cost knowledge area.

false

14. Poor allocation and management of float is a risk condition associated with the time knowledge area. true

#### **MODIFIED TRUE/FALSE**



2. The figure above illustrates the relationship between utility and payoff in the risk <u>averse</u> model.

| 3.  | Risk <u>identification</u> involves determining which risks are likely to affect a project and documenting the characteristics of eachtrue  |
|-----|---|
| 4.  | Risk <u>reaction</u> planning involves taking steps to enhance opportunities and reduce threats to meeting project objectivesfalse_response plan  |
| 5.  | A risk management <u>plan</u> documents the procedures for managing risk throughout the project.  |
| 6.  | <u>Contingency</u> plans are developed for risks that have a high impact on meeting project objectives, and are put into effect if attempts to reduce the risk are not effective. <u>true</u> |
| 7.  | The risk questionnaire developed by F. W. McFarlan and the Dayton Tire Co. can be used to identify the major sources of risk in the categories of people, structure, and technology. true     |
| 8.  | The issue of whether a project will meet NPV, ROI, and payback estimates falls in the domain of <a href="technology">technology</a> risk  |
| 9.  | <u>Identifying</u> risks is the process of understanding what potential unsatisfactory outcomes are associated with a particular projecttrue  |
| 10. | Absence of leadership is a risk condition associated with the <u>communications</u> knowledge area. false human resource  |
|     | A(n) <u>influence</u> diagram represents decision problems by displaying essential elements, including decisions, uncertainties, and objectives, and how they influence each other.           |
| 12. | Secondary risks are risks that remain after all of the response strategies have been implemented. false_Residual  |
| 13. | Lack of post-project review is a risk condition associated with the <a href="scope">scope</a> knowledge area. falseIntegraion   |
| 14. | Applying <u>SWOT</u> to specific potential projects can help identify the broad risks and opportunities that apply in that scenario   |

## **MULTIPLE CHOICE**

| 1. | William Ibbs and Young H. Kwak performed a                                  | stuc            | ly to assess project managementA                      |
|----|---|-----------------|---|
|    | a. maturity   |                 | progress  |
|    | b. development  | d.              | implementation  |
|    | -   |                 | _   |
| 2  | In the study of the Third and IZ- of the                                    | 1_              | l   |
| 2. |   | oniy            | knowledge area for which all ratings were less than 3 |
|    | wasd_ management. a. procurement  | _               | cost  |
|    | b. human resources  |                 | cost<br><mark>risk</mark>                             |
|    | b. Human resources  | u.              | ACT   |
|    |   |                 |   |
| 3. |   | ıt foı          | and that _c percent of runaway projects did no risk   |
|    | management at all.  |                 |   |
|    | a. 25   | <mark>C.</mark> | <mark>55</mark><br>75                                 |
|    | b. 45   | d.              | 75  |
|    |   |                 |   |
| 4. | The possibility of loss or injury is calledC_ a. procurement                | _•              |   |
|    | a. procurement  | <mark>c.</mark> | <mark>risk</mark>                                     |
|    | b. damage   |                 | scope   |
|    |   |                 |   |
| 5  | P is an activity undertaken to lesson the in                                | mnae            | et of notantially adverse events on a project         |
| Э. | B is an activity undertaken to lessen the in a. Human resources development |                 | Communications marketing                              |
|    | b. Risk management  |                 | Procurement management                                |
|    | o. Rusk management  | u.              | 1 rocurement management                               |
|    |   |                 |   |
| 6. | Risk utility rises at a decreasing rate for a risk-                         |                 | -   |
|    | a. averse   |                 | neutral   |
|    | b. seeking  | d.              | tolerant  |
|    |   |                 |   |
| 7. | Those who are riskB have a higher tolera                                    | ince            | for risk, and their satisfaction increases when more  |
|    | payoff is at stake.   |                 |   |
|    | a. averse   | c.              | neutral   |
|    | <mark>b. seeking</mark>   | d.              | tolerant  |
|    |   |                 |   |
| 8  | A riskC person achieves a balance between                                   | en ri           | sk and navoff   |
| 0. | a. averse   | СП П            | neutral   |
|    | b. seeking  | d.              | tolerant  |
|    | 5. 555  |                 |   |
| •  | D.1   |                 | 1 11 4 11   |
| 9. |   | w to            | approach and plan the risk management activities for  |
|    | the project.  | _               |   |
|    | a. response   | C.              | monitoring  |
|    | b. identification   | <mark>d.</mark> | planning  |

| 10. | <ul> <li>A_ risk analysis involves measuring the probability and consequences of risks and estimating the effects on project objectives.</li> </ul> |                       |   |
|-----|---|-----------------------|---|
|     | a. Quantitative   | c.                    | Identifying   |
|     | b. Qualitative  |                       | Monitoring  |
|     |   |                       |   |
| 11. | <del>-</del>  | tive                  | actions in response to risks and updates to the risk    |
|     | response plan. a. identification  | c.                    | monitoring and control                                  |
|     | b. response   |                       | analysis  |
|     |   |                       |   |
| 12. |   |                       | team will take if an identified risk event occurs.      |
|     | a. Fallback   |                       | Backup  |
|     | b. Contingency  | u.                    | Unanticipated   |
| 13  | The issue of whether users will accept and use  | ם חדי                 | oduct or service falls in the domain ofD risk.          |
| 15. | a. financial  | -                     | timing  |
|     | b. technology   |                       | market  |
|     |   |                       |   |
| 14. |   | dei                   | rive a consensus among a panel of experts who make      |
|     | predictions about future developments.  a. Alpha  | C                     | Delphi  |
|     | b. Gantt  |                       | Interviewing  |
|     |   |                       | 9   |
| 15. |   | g inf                 | ormation in face-to-face, telephone, e-mail, or instant |
|     | messaging discussions.  | -                     | Drainstaming  |
|     | <ul><li>a. Interviewing</li><li>b. The Delphi Technique</li></ul>   |                       | Brainstorming<br>Analysis                               |
|     |   |                       |   |
| 16. | SWOT analysis stands for strengths, weaknesse   | es. o                 | opportunities, and D .                                  |
|     | a. techniques   | c.                    | trust   |
|     | b. transitions  | <mark>d.</mark>       | threats   |
|     |   |                       |   |
| 17. | System or processD charts are diagrams t a. Gantt   |                       | show how different parts of a system interrelate.  pie  |
|     | b. flow   | c.<br><mark>d.</mark> | influence   |
|     |   |                       |   |
| 18. | Risk symptoms, orC, are indicators of act   | ual                   | risk events.  |
|     | a. milestones   | <mark>C.</mark>       | triggers  |
|     | b. phases   | d.                    | backlash  |
|     |   |                       |   |
| 19. | RiskA are numbers that represent the ove occurring and the consequences to the project i  |                       | risk of specific events, based on their probability of  |
|     | a. factors  | С.                    | 1   |
|     | b. functions  | d.                    | insights  |

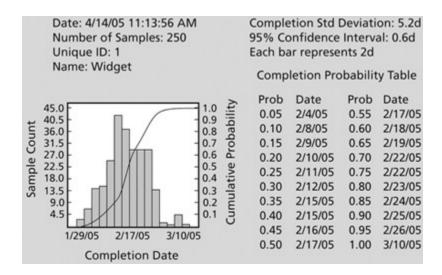
| 20. | a. Finding b. Following  | analy<br>c.<br><mark>d.</mark> |  |
|-----|--|--------------------------------|--|
| 21. | A(n) _B_ tree is a diagramming analysis tecsituations in which future outcomes are uncerta a. analysis b. decision | ain.<br>C.                     | ue used to help select the best course of action in risk factoring   |
| 22. | ExpectedC_ value is the product of a risk of a. momentary b. total   | <mark>c.</mark>                | t probability and the risk event's financial value.<br><mark>monetary</mark><br>base   |
| 23. | RiskA involves eliminating a specific thra. avoidance b. acceptance  | c.                             |  |
| 24. | RiskC is shifting the consequence of a ris<br>a. avoidance<br>b. acceptance  | <mark>c.</mark>                | nd responsibility from its management to a third party.  transference  mitigation  |
| 25. | RiskB means tolerating the consequences a. avoidance b. acceptance   | c.                             |  |
| 26. | C (by C/S Solutions, Inc.) is a comprehent quantify the cost and schedule uncertainty assota. Risk + b. AllRisk    | ciato<br><mark>c.</mark>       | risk analysis tool that integrates with Project 2002 to<br>ed with projects.<br>MSRisk<br>Top Ten Risk                           |
| 27. |  |                                | e probability of meeting specific schedule goals, you ely duration estimates for project tasks on a network  Monte Carlo Top Ten |
| 28. | _D help you trace problems back to their ro<br>a. Influence diagrams<br>b. Flow charts                             | oot c<br>c.<br><mark>d.</mark> | _  |
| 29. | B risk analysis involves assessing the like magnitude and priority.  | liho                           | od and impact of identified risks to determine their   |

a. Integratedb. Qualitative

- c. Influentiald. Trigger

# **COMPLETION**

| 1.  | Projects that have significant cost or schedule overruns are calledRunaway projects.  |
|-----|---|
| 2.  | The amount of satisfaction or pleasure received from a potential payoff is called risk  |
| 3.  | When more payoff or money is at stake, a person or organization that is riskaverse gains less satisfaction from the risk.   |
| 4.  | A risk person prefers outcomes that are more uncertain and is often willing to pay a penalty to take risks.   |
| 5.  | risk analysis involves characterizing and analyzing risks and prioritizing their effects on project objectives.   |
| 6.  | Risk is reducing the impact of a risk event by reducing the probability of its occurrence.  |
| 7.  | Contingency reserves or contingency plans are provisions held by the project sponsor that can be used to mitigate cost or schedule risk if changes in project scope or quality occur. |
| 8.  | Brainstorming is a technique by which a group attempts to generate ideas or find a solution for a specific problem by amassing ideas spontaneously and without judgment.              |
| 9.  | In order to create a decision tree, and to calculate expected monetary value specifically, you must estimate theactions, or chances, of certain events occurring.                     |
| 10. | A(n)Monte Carlo analysis simulates a model's outcome many times to provide a statistical distribution of the calculated results.  |
| 11. | Workarounds are unplanned responses to risk events.   |



- 12. The figure above illustrates the results from a(n) \_\_\_Monte Carlo\_\_\_\_-based simulation of a project schedule.
- 13. The figure above shows that there is a(n) \_\_\_\_\_\_percent probability that the project will be completed by 2/08/05.

#### **ESSAY**

- 1. Explain the history and function of the Delphi Technique.
- 2. How could Cliff Branch in the opening case in the book have used a probability/impact matrix?
- 3. What is accomplished by a risk management review?

## **Chapter 12: Project Procurement Management**

#### TRUE/FALSE

- 1. The term procurement is widely used in the government. T
- 2. Clients are often able to use economies of scale that may not be available to outsourcing suppliers. T
- 3. Work is occasionally outsourced without a formal solicitation. T

| 4.  | The make-or-buy decision is an important organizational milestone that comes after source selection. F   |
|-----|--|
| 5.  | Many organizations use make-or-buy analysis to decide between purchasing or leasing items for a particular project.  |
| 6.  | Internal experts should be consulted after procurement planning so as not to interfere with the initial setup. $\mbox{\sc F}$  |
| 7.  | In terms of contracts, a fixed-price incentive contract has the least amount of risk for the buyer. F  |
| 8.  | Time and material contracts require the buyer to pay the supplier a predetermined amount per unit of service, and the total value of the contract is a function of the quantities needed to complete the work. |
| 9.  | T The SOW should not use industry terms, rather it should attempt to phrase itself in easily understood language.  |
| 10. | A SOW should become part of the official contract. T   |
| 11. | RFPs usually do not take nearly as long to prepare as RFQs. T  |
| 12. | In the source selection process, technical criteria should be given more weight than management or cost criteria.<br>T   |
| 13. | Many project managers know very little about contract administration. T  |
| 14. | Ideally, the project manager and his or her team should both be actively involved in the contract. T   |
| 15. | Non-technical issues are of secondary importance in the attempt to get the most value out of new technologies.<br>T  |
| MOD | IFIED TRUE/FALSE   |
| 1.  | U.S. federal spending on IT outsourcing services is projected to more than <u>triple</u> by 2007.  |
|     |  |

| 2. |              | Navy-Marine Corps <u>Internet</u> contract awarded in October 2000 was the U.S. government's biggest echnology outsourcing contract.   |
|----|--------------|--|
| 3. | <u>Procu</u> | rement planning involves documenting product requirements and identifying potential sources.   |
| 4. | Conti        | ract <u>close-out</u> involves completion and settlement of the contract.  |
| 5. |              | project scope statement, product descriptions, and market conditions are all <u>outputs</u> needed for rement planning.  |
| 6. |              | <u>-or-buy</u> analysis involves estimating the internal costs of providing a product or service and aring that estimate to the cost of outsourcing.   |
| 7. | A(n)         | fixed-price contract is another name for a lump-sum contract   |
| 8. | <u>Direc</u> | t costs are costs related to the project that cannot be traced back in a cost-effective way.   |
| 9. | <u>Supp</u>  | liers have the lowest risk with firm-fixed price contracts   |
|    | 1.           | Scope of Work: Describe the work to be done in detail. Specify the hardware and software involved and the exact nature of the work.  |
|    | П.           | Location of Work: Describe where the work must be performed. Specify the location of hardware and software and where the people must perform the work.   |
|    | III.         | Period of Performance: Specify when the work is expected to start and end, working hours, number of hours that can be billed per week, where the work must be performed, and related schedule information. |
|    | IV.          | <b>Deliverables Schedule:</b> List specific deliverables, describe them in detail, and specify when they are due.  |
|    | V.           | Applicable Standards: Specify any company or industry-specific standards that are relevant to performing the work.   |
|    | V1.          | Acceptance Criteria: Describe how the buyer organization will determine if the work is acceptable.   |
|    | VII.         | Special Requirements: Specify any special requirements such as hardware or software certifications, minimum degree or experience level of personnel, travel  |

requirements, and so on.

| 10.                         | The figure above is an example of an SOW <u>template</u> .   |
|-----------------------------|--|
| 11.                         | Stakeholders in the procurement process should be involved in choosing the supplier for the project.                                   |
| 12.                         | BAFO stands for best and <u>fixed</u> offer.   |
| 13.                         | Change control is an important part of the <u>contract</u> administration process.   |
| 14.                         | The term <u>e-procurement</u> is now used for various procurement functions that are done electronically.                              |
| 15.                         | Procurement <u>audits</u> identify lessons learned during the procurement process.   |
| MUL                         | ΓΙΡLE CHOICE   |
| 1.                          | IT professionals generally use the term rather than procurement. a. purchasing c. obtaining b. outsourcing d. absorbing                |
| 2.                          | The U.S. market for IT outsourcing was projected to pass \$110 by 2003. a. thousand  |
| 3.<br><mark>a.</mark><br>b. |  |
| 4.                          | In, one must decide what to outsource, determine the type of contract, and create a statement of work.  a. procurement planning        |
| 5.                          | An RFP is often issued at the end of the process. a. procurement planning c. source selection b. solicitation planning d. solicitation |
| 6.                          | involves managing the relationship with the supplier.  |

|     |                        | Source selection<br>Solicitation  |                 | Contract administration Contract close-out  |
|-----|------------------------|---|-----------------|---|
| 7.  | a.                     | involves obtaining quotations, bids, offers Source selection Solicitation   | c.              | proposals as needed.  Contract administration  Contract close-out   |
| 8.  | pro<br><mark>a.</mark> | decision is one in which an organization ducts or services themselves, or if they shou make-or-buy sink-or-swim         | ld p<br>c.      | cides if it is in their best interests to produce certain urchase them from an outside organization. give-and-take back-and-forth |
| 9.  | a.                     | e key output of is the awarding of the c<br>contract administration<br>solicitation                                     | <mark>C.</mark> | ract. <mark>contract close-out</mark> source selection  |
| 10. | a.                     | the end of, there is a formal acceptance contract administration solicitation   | <mark>C.</mark> | d closure of the contract.  contract close-out source selection   |
| 11. | a.                     | ere are central categories of contracts. three four   |                 | five six  |
| 12. | a.                     | contracts involve payment to the supplier<br>Time and material<br>Unit costs  | c.              | direct and indirect actual costs.<br>Fixed-price<br><mark>Cost-reimbursable</mark>  |
| 13. | and                    | contracts are most often used for services d total costs cannot be estimated in a contract Time and material Unit costs |                 | are needed when the work cannot be clearly specified  Fixed-price  Cost-reimbursable  |
| 14. | a.                     | ne and material contracts are a hybrid of botl<br>lump-sum<br>unit costs  |                 | ted-price and contracts. fixed-price cost-reimbursable  |
| 15. | a.                     | e cost-reimbursable contract with the lowest<br>cost plus percentage of costs<br>cost plus fixed percentage             | c.              | _ · · · · · · · · · · · · · · · · · · ·   |
| 16. |                        | e is a description of the work needed fo  |                 | e procurement.<br>CPIF  |

|     | <mark>b.</mark> | SOW   | d.                             | FPI   |
|-----|-----------------|---|--------------------------------|---|
| 17. | a.              | tey factor in evaluating IT bids is the past pe<br>government<br>buyer                                    | c.                             | mance record of the  bidder  client   |
| 18. | a.              | _ do most of the work in the solicitation pro<br>Governments<br>IT managers                               | c.                             | s.<br>Buyers<br>Suppliers   |
| 19. | a.              | opliers who are finalists in the source selection<br>CPIF<br>BAFO   | <mark>C.</mark>                | process are often asked to prepare a  RFP SOW                                     |
| 20. | a.              | e final output from the source selection proce<br>BAFO<br>SOW   | ess i<br>c.<br><mark>d.</mark> | 1   |
| 21. | the<br>a.       | cording to Department 56, Inc., Arthur Ande<br>y had agreed upon for a new outsourced con<br>two<br>three | iput<br>c.                     | charged them approximately times as much as er system.  four  five                |
| 22. | a.              | e final process in project procurement manag<br>solicitation<br>source selection                          | -                              | ent is  contract administration  contract close-out                               |
| 23. | a.              | ntract files and formal acceptance are output<br>contract close-out<br>source selection                   | c.                             | om contract administration solicitation   |
| 24. | a.              | ost organizations use software to create word-processing spreadsheet                                      | c.                             | posal evaluation worksheets.<br>database<br>presentation                          |
| СОМ | PLE             | ETION   |                                |   |
| 1.  | _               | procurement means acquiring goo   | ods                            | and/or services from an outside source.   |
| 2.  | A(ı for         | n) contract is a mu<br>the specified products or services and obliga                                      | utua<br>ates                   | lly binding agreement that obligates the buyer to pay the seller to provide them. |

| 3.  | An RFP is a Request for Proposal   |
|-----|--|
| 4.  | supplier selection includes choosing from among potential suppliers through a process of evaluation.   |
| 5.  | procurement planning is the process of identifying which project needs can best be met by using products or services outside the organization.   |
| 6.  | sum contracts involve a fixed total price for a well-defined product or service.   |
| 7.  | An FFP contract stands forfirm fixed price.  |
| 8.  | The total value of the price contract is a function of the quantities needed to complete the work at a predetermined rate.   |
| 9.  | $A(n) \_Sweep \_\_\_\_ clause is a contract clause that allows the buyer or supplier to end the contract.$   |
| 10. | SOW stands for statement ofwork  |
|     | Procurement Planning Solicitation Planning Solicitation Source Selection Close-out Solicitation Planning Solicitation Source Selection Administration Close-out Close-out Solicitation Planning Solicitation Source Selection Administration Close-out Close-out Solicitation Planning Solicitation Source Selection Administration Close-out Close-out Solicitation Planning Solicitation Planning Solicitation Source Selection Administration Close-out Solicitation Planning Solicitation Planning Solicitation Planning Solicitation Source Selection Administration Close-out Solicitation Planning Solicita |
| 11. | The figure above shows project management processes.   |
| 12. | A Request for proposal (RFQ) is a document used to solicit bids from potential suppliers.  |
| 13. | Solicitation involves obtaining proposals or bids from prospective suppliers.  |
| 14. | A(n)pre-bid conference is a meeting with prospective suppliers prior to preparation of a proposal.   |

| 15.  | Source selection experts strongly recommend that buyers use formal proposal evaluation sheets during source selection. |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|
| ESSA | ESSAY  |  |  |  |  |  |  |
| 1.   | Describe cost plus percentage of costs (CPPC) contracts.   |  |  |  |  |  |  |
| 2.   | Discuss constructive change orders. Give an example.   |  |  |  |  |  |  |
| 3.   | Discuss ERP systems.   |  |  |  |  |  |  |
|      |  |  |  |  |  |  |  |
|      |  |  |  |  |  |  |  |
|      |  |  |  |  |  |  |  |
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|      |  |  |  |  |  |  |  |