System Planning Test

**Directions**: Answer 10 out of 12 questions.

**Introduction to Systems**

1. Name a system and describe how it applies the three stages of a system.

Answer will vary

Input – Processing – Output

**Systems Planning**

1.1.1 Identify the context for which a new system is planned

1. What are some of the things that must be considered when planning a new system?

Info to be input

Info to be produced or output

Scope and limitations of system

Needs, limitations, user roles, cost, underlying technologies, building infrastructure

1.1.2 Describe the need for change management

1. Why is change management an integral part of system development?

Accomplishes change in the most efficient manner while minimizing impact on organization

Provides training and support

Provides a consistent approach to change

Ensures proper planning, design, and testing

Lowers the total cost of IT Services

1.1.3 Outline compatibility issues resulting from situations including legacy systems or business mergers

1. Describe some of the issues system designers must consider when dealing with legacy systems?

Will software run on new hardware?

Data format compatibility

Can legacy system use new technologies?

1.1.4 Compare the implementation of systems using a client's hardware with hosting systems remotely

1. More and more companies are turning to cloud computing for their computer processing needs. What are some of the advantages of this type of system implementation? What are some of the disadvantages?

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| Save on hardware and software costs | Rely on broadband connect |
| Fewer employees needed to support IT | Slower access |
| Easy to deploy | Service outages |
| 24/7 support | Security and privacy |
| Access from virtually anywhere | Possible lack of flexibility |
|  | Platform dependencies |

1.1.5 Evaluate alternative installation processes

1. List one benefit and one drawback for each of the four system installation methods.

|  |  |  |  |
| --- | --- | --- | --- |
| Direct Change Over | Parallel | Phased | PIlot |
| Fast deployment | Lowest risk | Lower cost and able to isolate errors | Cost effective Isolate errors, able to train users |
| Difficult to revert back to old system | Higher cost of running to systems | Long implementation time | Long implementation time |
|  |  |  |  |

1.1.6 Discuss problems that may arise as a part of data migration

1. Identify two common data migration problems.

Incomplete Data – data can be missing or partially missing

Duplicate Data – data is the same on both systems, difficult to narrow down

Data Non-conformity – data is structure differently in database

Inconsistent and Inaccurate Data

1.1.7 Suggest various types of testing.

1. What is the purpose of system testing?

To verify that the system elements have been properly integrated and performed as expected.

**User Focus**

1.1.9 Evaluate different methods of providing user documentation

1. Which type of user documentation do you think is the most effective and why? Which one is the least effective and why?

User Guides

Help Files

Online support

Online tutorials

FAQ

Forums

Trouble shooting guides

Quick Start guides

1.1.10 Valuate different methods of delivering user training

1. Which type of training method do you think is the most effective and why? Which one is the least effective and why?

Web-based training

Web conferencing

Self-study (ref material)

**System Backup**

1.1.12 Outline the consequences of data loss in a specified situation

1. Outline some of the consequences of data loss in a school’s computer system.

Student data loss – attendance, grades, personal info

Teacher data loss – assignments, tests, etc.

School data loss – Sped, lep, 504 data

School cannot function

**Software Deployment**

1.1.14 Describe strategies for managing releases and updates

1. Describe strategies for managing releases and updates.

Automatic updates

Service packs

Website for manual downloads

Notify client when updates are available