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**BANGLADESH UNIVERSITY OF
BUSINESS AND TECHNOLOGY**

Assignment-1

Course Code: CSE 317

Course Title: System Analysis and Design

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1 NO Ans:

Soln: Advantages of using systems analysis and design techniques in approaching computerized information systems for business:

An information system is carried out by a group of activities. These activities are analysis of system, design of system, coding the system and testing the system for any specific business requirement.

- (1) The overall functionality of the proposed business can be improved by using techniques of system analysis and design.
- (2) A systematic procedure is being provided to analyst of the business problem, so that, he/she can analyze the data inputs in proper manner.
- (3) A system analysis and design technique provides UML diagrams. By help of these Diagrams, input and output can be measured and tested for its connectness.
- (4) The test cases can be generated by the help of system analysis and design technique. So, the quality of system can be improved.

(2)

2 NO Ans:

Soln: The person who acts as a mediator among technical team and clients of any applicants is known as system analyst. A vital role is being played by system analyst from development of SDLC (system development life cycle) to training the end users of the developed application. Three roles are given below:

1. Consultant: An outside expert who brings fresh perspective and relies on systematic approaches and project management fundamentals, versus intimate knowledge of organization's culture, to assess business challenges and recommend appropriate information system solutions.

2. Supporting Expert: An inside expert who serves as a hardware and software resource with intimate knowledge of an organization's culture to project managers and focuses on modifications that affect smaller groups.

3. Agent of change: Anything anytime an analyst stays in an organizational longer than two weeks and

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works with others to facilitate change by performing activities within the system development lifecycle.

3 No Ans:

Soln: Personal qualities of a sys that are helpful to a system analyst, are given below as a list:

- (1) Problem solver
- (2) Communicator
- (3) Strong personality
- (4) Professional ethics
- (5) Self-motivated
- (6) Self-disciplined

4 No Ans:

Soln: The seven phases of the systems development life cycle (SDLC):

1. Identify problems, opportunities and objectives - Interviews, user management, summarize information, estimates, scope, documents results.
2. Determining human information requirements - determines needs of users involved.

3. Analyzing system needs - Use tools and techniques that help make determinations.
4. Designing the recommended ~~ssl~~ system - Use previously collected info to design info system.
5. Developing and documenting software - works with programmers to develop software.
6. Testing and maintaining the system - test system to catch problems.
7. Implementing and evaluating the system - train users, convert old system to new.

5 No Ans:

Soln: Unified UML or Unified Modeling Language - a standardized language modeling language in which objects that are created include not only code about data but also instructions about the operations to be performed on the data.

1. UML is different from the other common programming languages such as: c++, Java, COBOL etc.
2. UML is a pictorial language ~~use to~~ used to make software blueprints.