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BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY

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Lab Exam Answer Sheet

Course Code: CSE 318

Course Title: System Analysis and Design

Submitted to:

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Section: 01

Program: B.Sc. in CSE

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Soln: Restaurant Management System Scheduling Table:

(I)

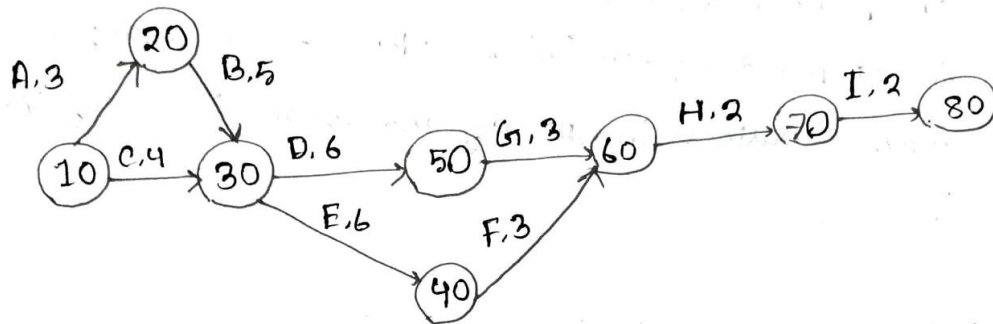| Task-ID	Task	Duration (in weeks)	Predecessor
A	Conduct Interview	3	None
B	Read restaurant documents	5	A
C	Analyze data flow	4	none
D	Manual layout complete	3	B. C
E	Introduce Prototype	6	B. C
F	Observe reactions to Prototype	3	E
G	Perform cost benefit analysis	3	D
H	Prepare proposal	2	F. G
I	Prepare present proposal	2	H

Pert diagram

Fig: Pert diagram of Reastaurant management System.

Part-1

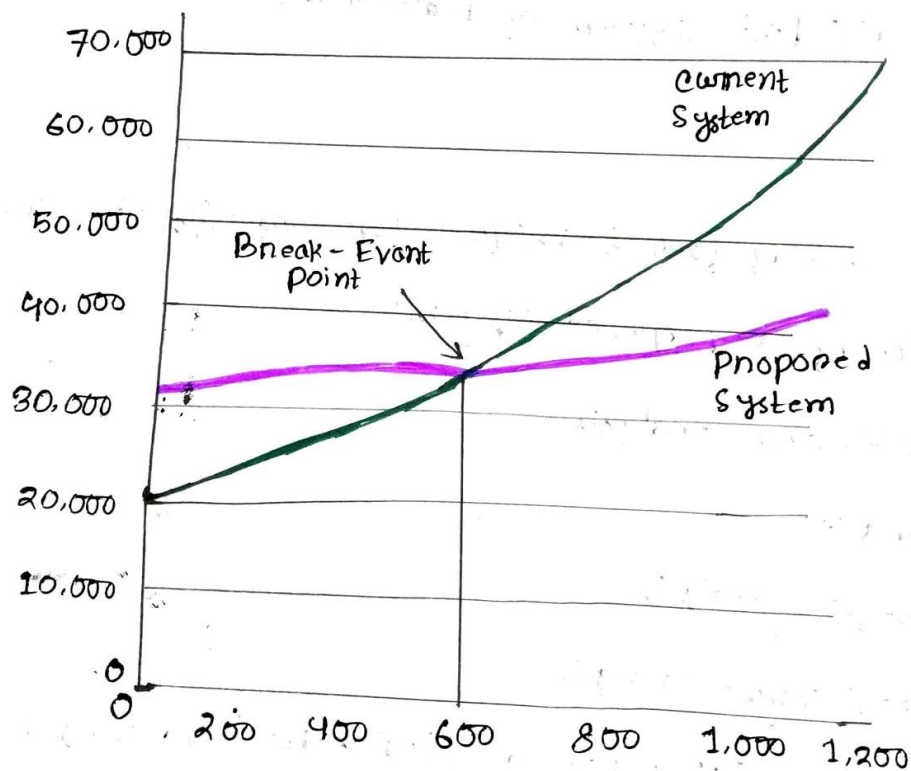**Soln:** List of four techniques for comparing the costs and benefits of a proposed system:

(1) Break-even analysis

(2) Payback

(3) Cash-flow analysis

(4) Present value analysis

All these techniques provide straightforward ways of yielding information to decision makers about the worthiness of the proposed system.

The point as which the total cost of the current system and the proposed system intersect. Break-even analysis is Useful when a business is growing and volume is a key variable in costs.

Sam's Equipment

Legend
cost of Proposed System
Cost of current system

Soln: Interval Scales are numeric scales in which we know both the order and the exact differences between the values. An interval scale is used when the intervals are equal. There is no absolute zero. Examples of interval scales include the Fahrenheit or centigrade scale (temperature scales), standardized tests, the Likert scale and the semantic differential scale. The classic example of an interval scale is Celsius temperature because the difference between each value is the same. For example, the difference between 60 and 50 degrees is a measurable 10 degrees, as is the difference between 80 and 70 degrees.

4 No Ans:
Part-1

Soln: Place most important, straightforward, simple question first. Then gradually get have to get complicated. Questions gathing gathering personal data are best placed last on a questionnaire.

Open-ended interview questions are appropriate when the analyst is interested in breadth and depth reply. Five example of open ended question:

① How would you describe your experience with the current system?

② What kind of challenges are you facing with the current system?

③ What kind of problems your customer facing with the current system?

④ How eol could you describe the level of service with your cus' curr current system?

⑤ What would you like to see improved?

5 NO Ans:

Part-1

Sol⁰: UML is an important tool used to improve the quality of the system by iterating number of times performing system analysis and design.

A The Unified Modeling Language (UML) is an industry standard for modeling object-oriented systems.

A model is an spe. simplification of reality, providing blueprints of a system. UML, in specific:

☑ Permits one to specify the structure or bevavior of a system.

☑ Helps one to visualize a system.

☑ Provides template that guides one in constructing a system.

☑ Helps to understand complex system part by part.

☑ Document the decisions that one have made.

<u>Part-2</u>

State chart diagram used to examine the different states that an object may have. State chart diagram for university student:

<u>University Student's life</u>

application submitted → [Potential Student] → requirements meet → [New accepted Student]

[New accepted Student] → University dorm selected → [Dorm assigned student]

[Dorm assigned student] → Program selected or course → [Programed Studenat]

[Programed Studenat] → Student enrolled in class → [Current Student]

[Current Student] → Student enrolled in class / Successfull course completion → [continuing Student]

[continuing Student] → graduation requirements complete → [Graduated student]

[Graduated student] → Student graduated →

Fig: State diagram