

**PARUL UNIVERSITY**  
**FACULTY OF MANAGEMENT**  
**MBA Winter 2019 - 20 Examination**

**Semester: 3**  
**Subject Code: 06205203**  
**Subject Name: System Analysis & Design**

**Date: 04/12/2019**  
**Time: 10:30am to 01:00pm**  
**Total Marks: 60**

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**Instructions**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1 Do as Directed.****A). Multiple choice type questions/Fill in the blanks. (Each of 1 mark)****(05)**

1. During the maintenance phase
  - a)System requirements are established
  - b)System analysis is carried out
  - c)Programs are tested
  - d)None of the above
- 2To run the old system and the new system at the same time for a specified period, the system implementation approach used is
  - a)Pilot
  - b)Phased
  - c)Direct
  - d)Parallel
- 3A decision table facilitates conditions to be related to
  - a)Actions
  - b)Programs
  - c)Tables
  - d)Operations
- 4An appraisal, of a system's performance after it has been installed, is called system
  - a)Planning
  - b)Maintenance
  - c)Review
  - d)None of the above
- 5Which of the following activities, does not belong to the Implementation phase of the SDLC?
  - a)File conversion
  - b)Program testing
  - c)User training
  - d)All of the above

**B).Define the following. (Each of 1 mark)****(05)**

1. Project Charter
2. Baseline Project Plan
3. Context Diagram
4. Single Location installation
5. Unit testing

**C).Direct questions.(Each of 1 mark)****(05)**

1. Differentiate between Economic feasibility and operational feasibility
- 2.What is multivalued attribute. Give one example of it
- 3.Differentiate between Homonyms and Synonyms
- 4.What is the purpose of denormalization?
- 5.State common types of business reports.

**Q.2** Answer the following questions.

A). What is degree of relationship. Explain each type by giving relevant example. (07)

Assume that you have a project with seven activities labeled A–G (below). Derive the earliest completion time (or early finish—EF), latest completion time (or late finish—LF), and slack for each of the following tasks (begin at time = 0). Which tasks are on the critical path?

Activity	Preceding Event	Expected Duration	EF	LF	Slack	Critical Path
A	-	5				
B	A	3				
C	A	4				
D	C	6				
E	B, C	4				
F	D	1				
G	D, E, F	5				

**Q.3** Answer the following questions.

A). Compare and contrast between **Observation** and **Document Analysis** as the two methods of determining System Requirement (07)

B). Mary is trying to decide which graduate programs she will apply to. She wants to stay in the southeastern region of the United States, but if a program is considered one of the top 10 in the country, she is willing to move to another part of the United States. Mary is interested in both the MBA and Master of MIS programs. An MBA program must have at least one well-known faculty member and meet her location requirements before she will consider applying to it. Additionally, any program she applies to must offer financial aid, unless she is awarded a scholarship. Use a decision table to represent this logic. (08)

**Q.4** Attempt any two questions. (Each of 7.5 mark) (15)

1. Explain different types of tests used during implementation stage of system
2. What is installation. Explain the different approaches that are used to do installation
3. Explain the different types of maintenance. Also explain how do they differ.
4. Using the example of a retail clothing store in a mall, list relevant data flows, data stores, processes, and sources/sinks. Observe several sales transactions. Draw a context diagram that represent the selling system at the store.