HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

PGDCA SEMESTER - II

DCA-204: System Analysis & Design

Teaching Scheme (per week)		Examination Scheme					
		INT		EXT		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.	Th.	Pr.
(hours)	(hours)	(marks)	(marks)	(marks)	(marks)	(marks)	(marks)
4		30		70		100	

University Examination Duration: 3 Hours.

UNIT-I (17 Marks)

- System definition
- Need for system development
- Types of system
- Types of user
- System development strategies
 - o SDLC
 - o Structured Analysis Development Strategy
 - Physical and Logical DFD
 - Data Dictionary
 - o System Prototype Method
- Role of system analyst
- System investigation: Fact Finding Techniques
- Tools for Documenting Procedures & Decision
 - o Decision Tree,
 - o Decision Table
 - Structured English

UNIT-II

(18 Marks)

- Code design
- Form design
- Input design
- Output design
- Computer Aided system tools

UNIT-III

(17 Marks)

- System Engineering and Quality Assurance
 - o Design of software
 - o Software design and documentation tools
 - Structure Flowchart
 - HIPO
 - Warnier /Orr Diagrams
 - Testing
 - o Documentation
- Managing System Implementation
 - o Training
 - o Conversion

UNIT-IV

(18 Marks)

- Case Studies
 - o Financial Accounting System
 - o Payroll System
 - o Library System
 - o Inventory / Stock System
 - Billing System(Input, Output, DFD)

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Books:

- Analysis & Design of Information Systems James A. Senn
- System Analysis & Design, 1st Edition, S.Parthasarthy & B.W.Khalkar
- Introduction To S.A.D. LEE VOL. 1 & 2

Question Paper Scheme:

University Examination Duration: 3 Hours.

Q.1 - Unit-I (17 Marks)

A. Objective/ Short Questions.

B. Descriptive/Long questions.

Q.2 - Unit-II (18 Marks)

A. Objective/ Short Questions.

B. Descriptive/ Long questions

Q.3 - Unit-III (17 Marks)

A. Objective/ Short Questions.

B. Descriptive/ Long questions

Q.4 - Unit-IV (18 Marks)

Case study

OR

Q.4 - Unit-I to III (18 Marks)

A. Objective/ Short Questions.

B. Descriptive/ Long questions

Note: 1. Options should be given in Q-1 to Q-3.