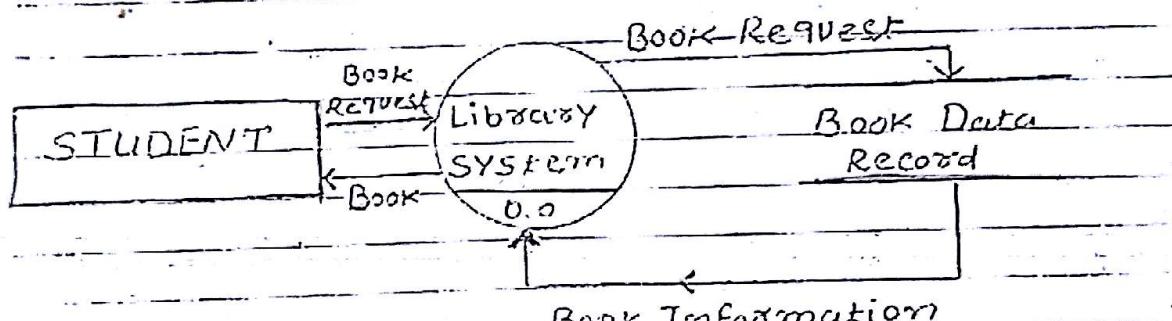


UNIT -4 CASE STUDIES

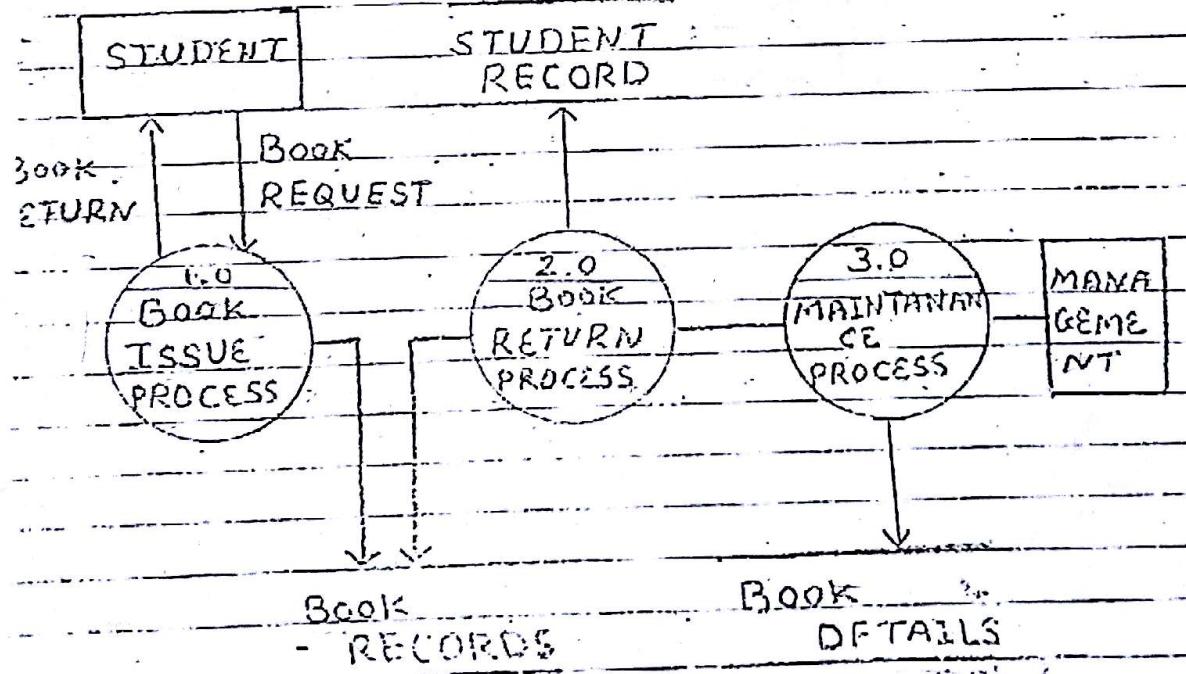
"Project 578"

2 Case Studies :-

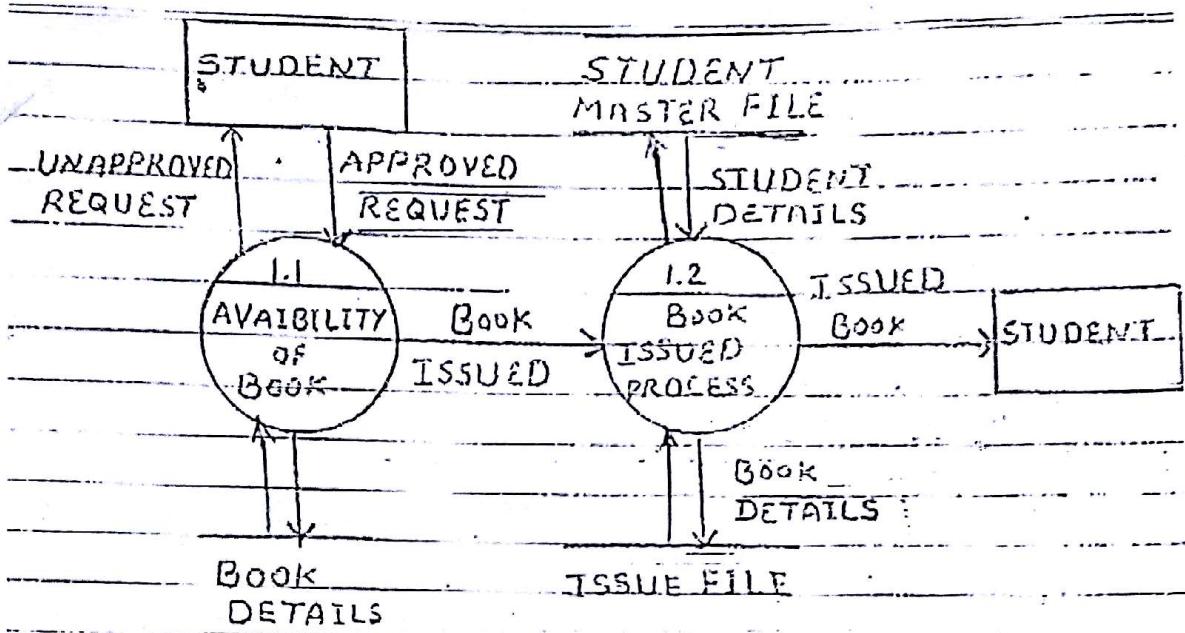
1 Library Systems



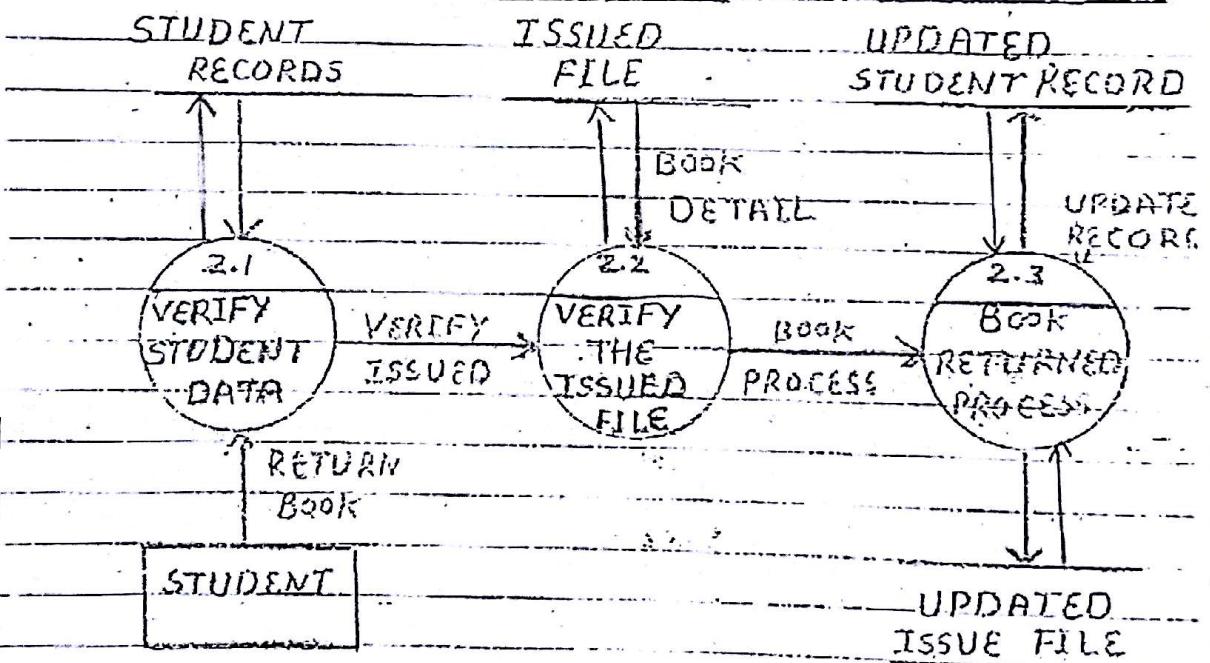
[Context Diagram]

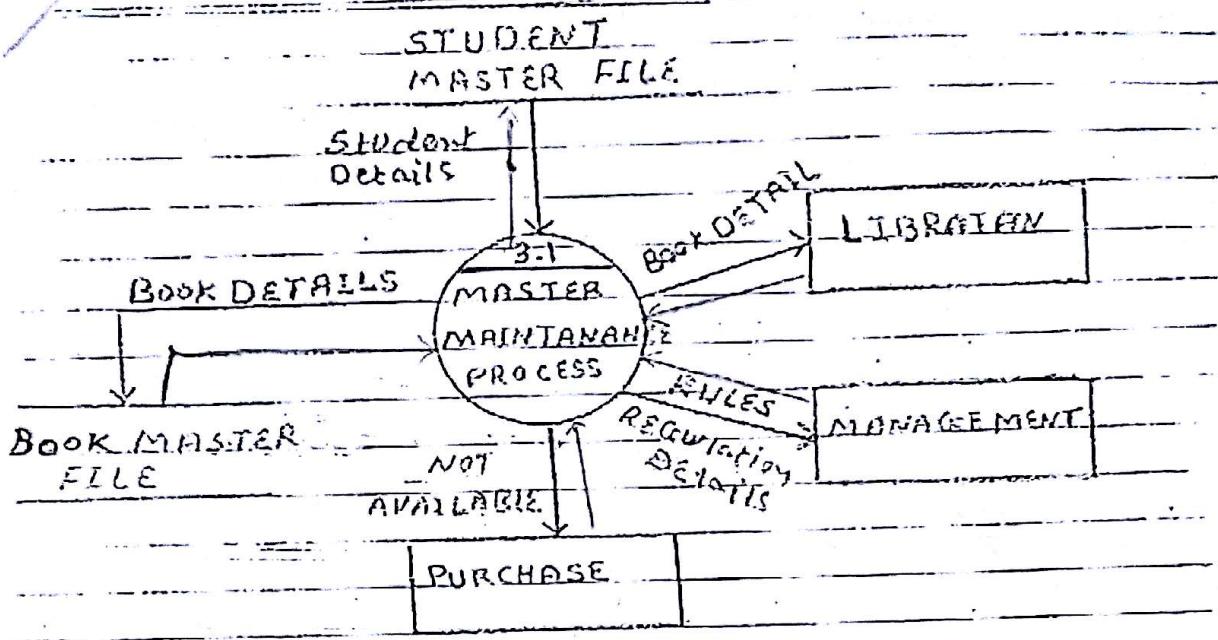


[1-level DFD for Library System]



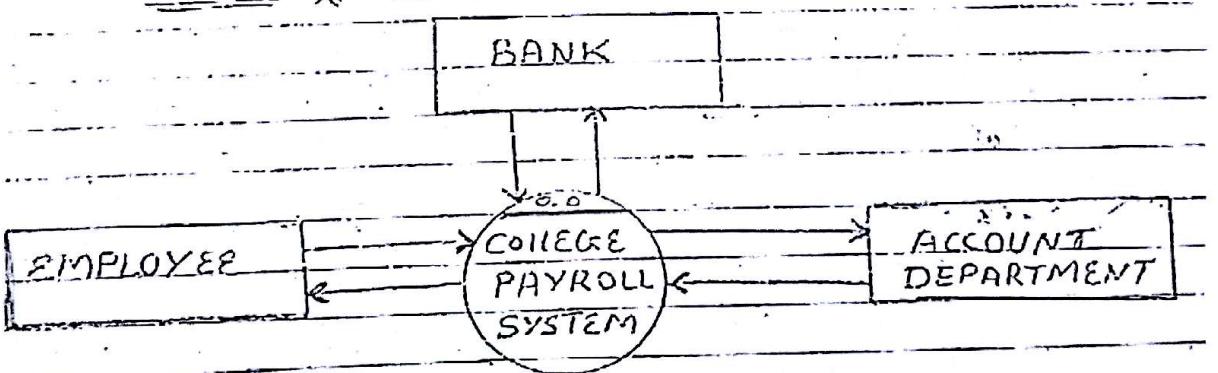
[2 - LEVEL DFD For Process 1.0]



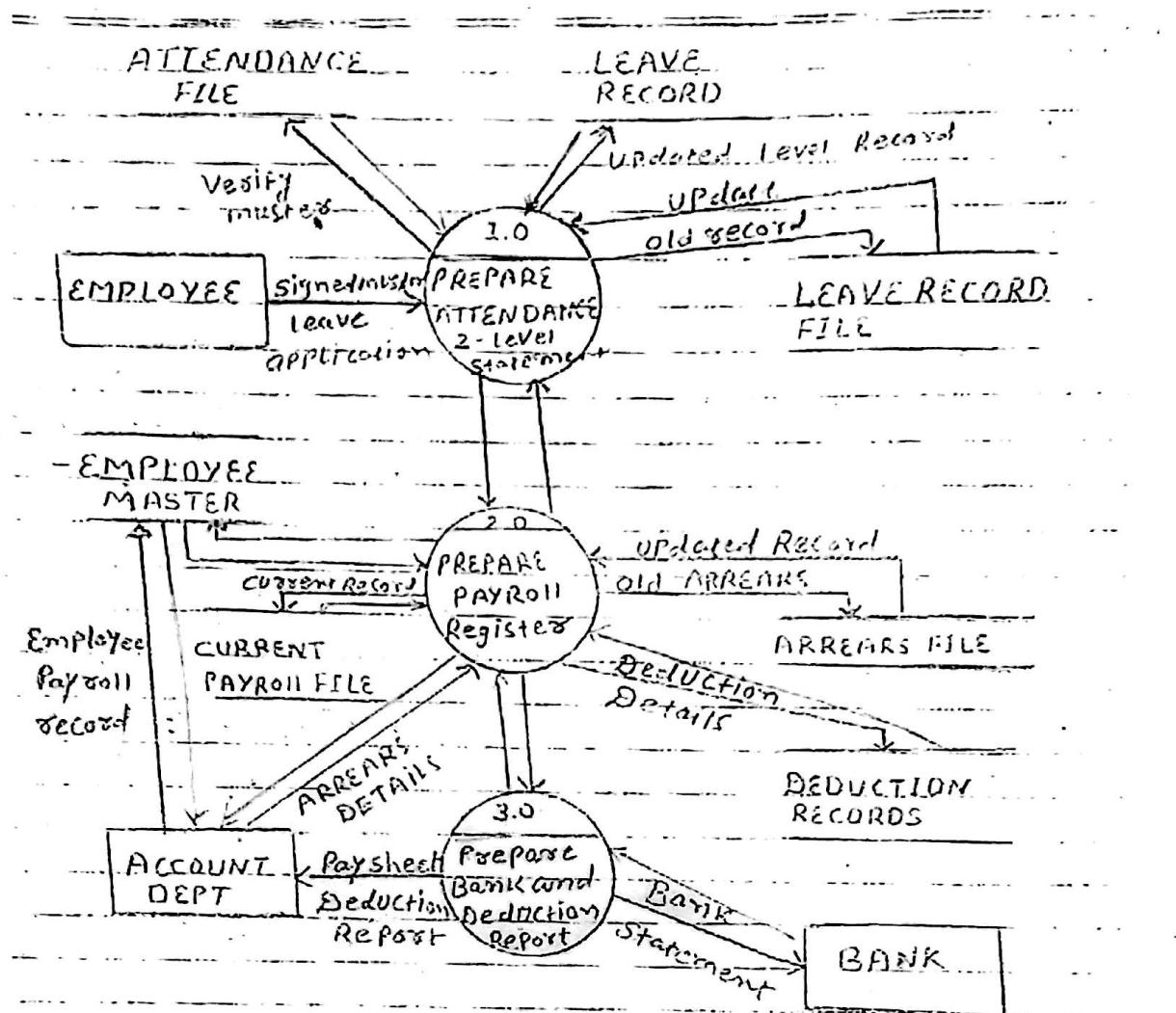


SECOND LEVEL OF 3.0

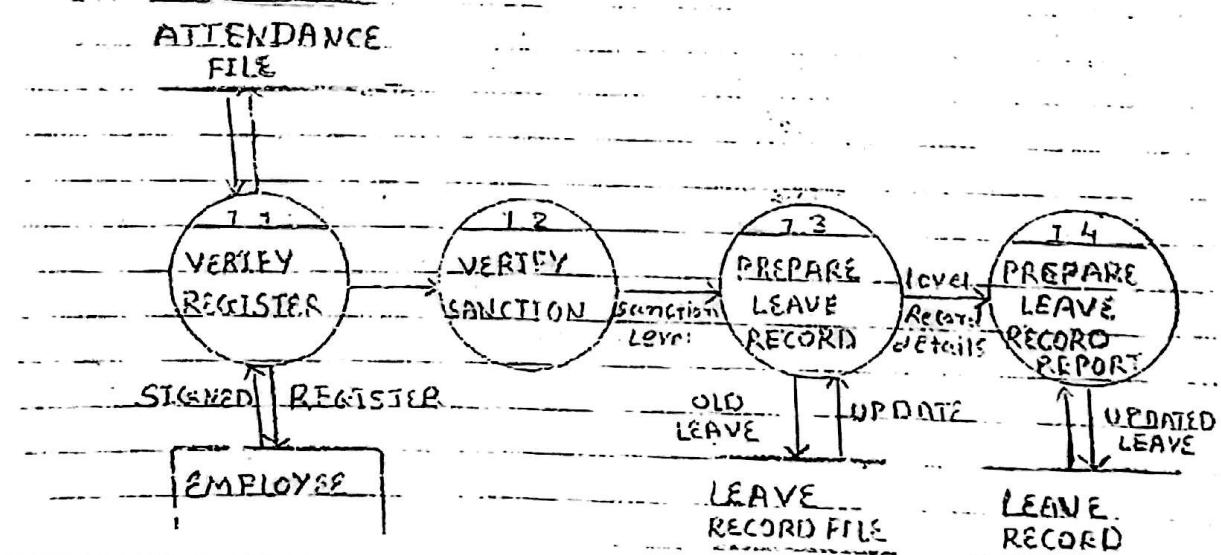
College Payroll System

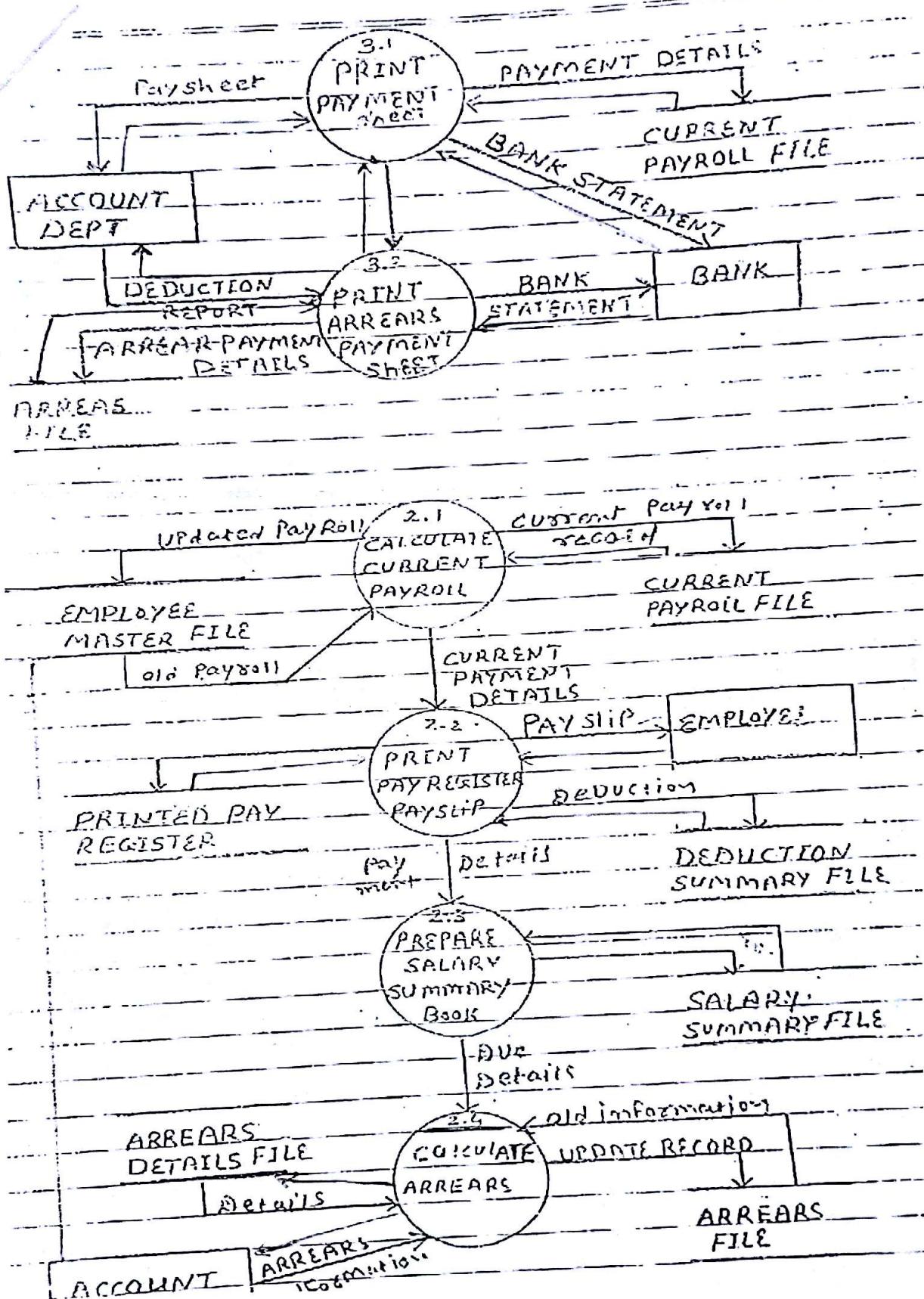


CONTEXT-DIAGRAM



1 - Level DFA





QUESTION BANK

UNIT: - 1

- (1) What is System?
- (2) Explain all the types of System.
- (3) Explain characteristics of a good system?
- (4) Explain Types of User in detail.
- (5) Explain System Development Life Cycle in Detail.
- (6) Explain White Box and Black Box testing.
- (7) What is the difference between System Analysis & system Design?
- (8) Explain the Categories (Types of Information) of system?
- (9) Explain Rules for Data Flow Diagram and Advantage and disadvantage in detail.
- (10) What is Data Dictionary?
- (11) What are Decision Trees?
- (12) What is DFD? Explain Symbols used in DFDS.
- (13) Explain Difference between Physical and Logical DFDS.
- (14) Explain System Prototype Method.
- (15) What is Feasibility Study? Explain in short with all types of it
- (16) Who is System Analyst? Explain roles of System Analyst.
- (17) Explain Fact Finding Techniques in detail.
- (18) What is Decision Tress? Explain in short with Example.
- (19) What are Structure English? Explain in short with Example.
- (20) What is SSADM? Explain structured analysis of SSADM and advantage

UNIT: - 2:

- (1) What is Code Design? Explain Principle of Code Design.
- (2) What is Form design? Explain Types of Forms and basic Principles of Form Design.
- (3) Write down Form Design Steps.
- (4) What is Input Design?
- (5) What is Data Capture? Explain Basic steps of Data Capture.
- (6) Explain Data Capture Objectives in short.
- (7) What is Data Validation? Explain validation checks and Transaction checks.
- (8) What is Output Design? Explain Design Principal of output.
- (9) Explain types of Output and Output Considerations in detail.
- (10) Explain Case Tools Components in brief.
- (11) Explain Advantages and Disadvantages of CASE Tools in detail.

UNIT: - 3:

- (1) What is different between System Engineering and Quality Assurance?
- (2) What is Software Design ? Explain software design Principles.
- (3) Explain Program Structure charts.
- (4) What is coupling and cohesion? Explain. With example.
- (5) What are the software design and Documentation Tools?
- (6) Write short note on Structure Flow chart.
- (7) What is HIPO? Explain in Detail.
- (8) Write short note on Warner/Orr Diagram.
- (9) What is testing? Explain Types of Testing in detail.
- (10) What are the characteristics of a Good documentation?
- (11) What is Training? Explain Training Methods in Detail.
- (12) What is Conversion? Explain Conversion Methods in Detail.

UNIT - 4

- (1) Explain case study of Library System in detail.
- (2) Explain case study of Payroll System in detail.
- (3) Explain case study of Financial System in detail.
- (4) Explain case study of Inventory Stock system in detail.
- (5) Explain case study of Billing System in detail.
- (6) Explain case study of Online banking System in detail
- (7) Explain case study of Railway Reservation System in detail

BEST OF LUCK

Components of software requirement specification:-

The simplified outline presented below may be used as a framework for the specification.

- I. Introduction
 - (A) System reference
 - (B) Overall description
 - (C) Software project constraints
 - II. Information description.
 - (A) Information
 - (B) Information flow
 - 1. Data flow
 - 2. Control flow
 - III. Functional description
 - (A) Functional partitioning
 - (B) Functional description
 - 1. Processing narrative
 - 2. Partitions / limitations
 - 3. Performance requirements
 - 4. Design constraints
 - 5. Supporting diagrams
 - (c) Control description
 - 1. Control specification
 - 2. Design constraints
 - IV. Behavioral description
 - (A) System states
 - (B) Events and actions
 - V. Validation and criteria
 - (A) Performance bounds
 - (B) Classes of tests
 - (C) Expected software response
 - (D) Special considerations
 - VI. Bibliography
 - VII. Appendix.
- VIJAYSINH (V.P.P.)

SYS TEM ANALYSIS AND DESIGN [P.G.D.C.A & S.Y.B.C.A STUDENTS]

QUESTION BANK

[Up to 5 to 15 marks]

UNIT :- 1 : Questions

- (1) What is System ? define it . [2 or 3 marks]
- (2) Why system development is needed ? explain.
- (3) Explain all the types of System.
- (4) Explain Open and close system with example [2 or 3 marks]
- (5) What are the characteristics of a good system ? Explain.
- (6) What are the Elements of system Analysis ? Explain.
- (7) Explain Types of User in detail.
- (8) Explain System Development Life Cycle in Detail. [I.M.P MOST]
- (9) Explain White Box and Black Box testing . [2 or 3 marks]
- (10) What is the difference between System Analysis & system Design ? Explain.
- (11) What is Physical DFD and Logical DFD ?
- (12) What are the elements of Data Flow Diagram ?
- (13) Explain Rules for Data Flow Diagram in detail.
- (14) What is Data Dictionary ? Why Data Dictionary are Important ?
- (15) What are Decision Trees ? . [2 or 3 marks]
- (16) What is DFD ? Explain Symbols used in DFDS .
- (17) Explain Difference between Physical and Logical DFDS .
- (18) Explain System Prototype Method in Detail.
- (19) What is Prototype ? [2 or 3 marks]
- (20) Who is System Analyst ? Explain jobs of System Analyst .
- (21) Explain Attributes of an effective system analyst .
- (22) Explain Roles of System Analyst in detail.
- (23) Explain Fact Finding Techniques in detail. Which technique is best ? [I.M.P MOST]
- (24) What is Decision Tree ? Explain in short with Example.
- (25) What are the Decision Tree Characteristics ?
- (26) What are Decision Tables ? Explain in short with Example.
- (27) What are Structure English ? Explain in short with Example.
- (28) What is Feasibility Study ? Explain in short with all types of it .

Page 2 of 3 [I.N.S.B B.C.A AND P.G.D.C.A COLLEGE , IDAR] BY : DARSHANA PANDYA

UNIT :- 2 : Questions

- (1) What is Code Design ? Explain Principle of Code Design .
- (2) Explain Significant Codes , Logical Codes , Collating codes in detail.
- (3) Explain Hierarchical codes , Classification code in detail.
- (4) Explain Non-significant Codes and Random codes in Detail.
- (5) What is Form design ? Explain Types of Forms and basic Principles of Form Design .
- (6) Explain Form Design Considerations in Detail.
- (7) Write down Form Design Steps.
- (8) What is Input Design ? Explain.
- (9) What is Data Capture ? Explain Basic steps of Data Capture .
- (10) Explain Terms and basic terms of data capture in detail.
- (11) Explain Data Capture Objectives in short .
- (12) What is Data Validation ? Explain validation checks and Transaction checks .
- (13) What is Output Design ? Explain Design Principal of output .
- (14) Explain Output Objectives in detail .
- (15) Explain types of Output and Output Considerations in detail.
- (16) What are the Output media ? Explain in brief .
- (17) What is C.A.S.E ? Full Form.
- (18) Explain Case Tools Components in brief. [I.M.P MOST]
- (19) Explain Advantages or Benefits of CASE Tools in detail . [I.M.P MOST]
- (20) Explain Disadvantages of CASE Tools in detail . [I.M.P MOST]

UNIT :- 3 : Questions

- (1) Explain System Engineering and Quality Assurance.
- (2) Explain Program Structure charts.
- (3) What is purpose of Structure Charts ?
- (4) What is coupling and cohesion ? Explain. With example.
- (5) What are the software design and Documentation Tools ?
- (6) Write short note on Structure Flow chart .
- (7) What is HIPO ? Explain in Detail.
- (8) Write short note on Warner/Orr Diagram .
- (9) What is testing ? Explain Types of Testing in detail.
- (10) What are the characteristics of a Good documentation ?
- (11) Write short note on Good Documentation.
- (12) What is Training ? Explain Training Methods in Detail.
- (13) What is Conversion ? Explain Conversion Methods in Detail.

UNIT :- 4 : Questions [Long Questions upto 15 marks]

- (1) Explain case study of Payroll System in detail .
- (2) Explain case study of Library System in detail .
- (3) Explain case study of Financial System in detail .
- (4) Explain case study of Inventory Stock system in detail .
- (5) Explain case study of Billing System in detail . (Input , Output , DFD).

***** Good Luck *****