

**MAJOR PAPER VIII – SYSTEM ANALYSIS DESIGN & ITS BUSINESS APPLICATIONS**

**UNIT – I**

Business problems & computers : Overview of Business Organization – Information needs & systems – some typical problems – systems life cycle – system study – feasibility study.

**UNIT – II**

System analysis – initiation of analysis – the process of analysis – system design – design factors – design constraints – processing techniques – the process of design – output design – input design – file & data base design.

**UNIT – III**

Analysis & Design tools – data flow diagram – data dictionary – entity relationship diagram – decision tree – decision table – structured English – structure charts – grid charts – layout charts – configuration selection & acquisition – detailing the configuration – storage requirements – internet memory – processors – terminals – printers.

**UNIT – IV**

File organization & design : Functional Classification of files – file structure – file organization – inverted file – security & Controls – Risk management – Physical security – access control – Data control – other security & Control measures.

**UNIT – V**

Post – Design phase – Develop software – installation & change-over-system operation & Maintenance – systems applications – Financial accounting – inventory accounting systems – equipment maintenance – bank operations – production planning & control – Process control – Robotics.

**TEXT:**

“SYSTEM ANALYSIS & BUSINESS APPLICATIONS” – Rajesh Naik & Swapna Kishore, Wheeler Publishing – First edition 1994.

**REFERENCE:**

“INTRODUCTION SYSTEMS ANALYSIS & DESIGN” – Elias.M.Awad – Galgotia Publications(P) Ltd.(second edition)