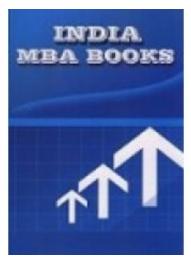
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UNIX & C Programming

Unit – **I:** Unix Utilities: Introduction to Unix File System-File Editor-File HandlingUtilities –Security By File Permissions. Process Utilities – Disk Utilities – Networking Commands? Coml, Unlink, Mkdir, Rmdir, Mount, Umount, FindUmsk, Ulimit, Who Finger, Fil, Telnet, Rlogin, Text

Processing Utilities, and Backup Utilities, Cat, Fail, Head, Sort, Nl, Grep, Cgrep, Cut, Paste, Join, More, Pg, Comm, Cmp, Diff, Awk.

Unit – **II:** What is a Shell, Shell Responsibilities Pipes and Impact Redirection, OutputRedirection. The Shell As Programming Language. Shell Variables. Condition, Control Structure and Shell Programming.

Unit – III: Unix Internals? Unix File Structure – Directoires. File and Devices System Callsand Device Drivers – Library Fuctions - Low Level File Access (Write, Read,Open, Close, Locil, Iseek, Istat, Stat). The Standard I/O (Fopen, Fread, Flush,Fseek, Fgetc, Getc, Getchar, Fpute, Putchar, Fgets, Gets). Formatted I/O Streamand File Descriptors File and Directory Maintenance (Chmode, Chown, Unlim,Symlink, Mkdir, Rmdir, Chdir).

Part B: C Programming:

Unit – **I:** Basic Structure of C-Language, C Tokens, Data Types, Declaration of Variables, Assigning Values. Arithmetic, Relational and Logical Operations. Increment and Decrement Operators, Control Operators, Bit-Wise Operator, Expressions, Evaluation, InputOutput Operators. If and Switch Statements. While Do-Whileand For Statements, Programming

assignments, implementation of lists, stacks, queues, and recursions. C Programs Covering All The Above Aspects.

Unit – **II:** One Dimensional and Two Dimensional Arrays Initialization, String Variable, Declaration, Reading, Writing, String Handling, Functions, User-DefinedFunctions, Variable and String Classes, Example C Programs. Extensive top-down design principles to solve

non-trivial problems, dynamic storage, and classes.

Unit – III: Structure Definition, Initialization, Assigning Values, Passing of Structures as Arguments, Unions, Declaring and initializing of Pointers, Pointer BasedExpressions. Arrays, Strips, Functions, Advanced array applications and Structures? C Program Examples, FileManagement in C, Opening and Closing I-O Operations On Files