# Syllabus for 1<sup>st</sup> MFCP to the post of Programmer- A

## C and C++ Programming

Functions, Arrays, Pointers, Structures, Unions, Files, Object oriented Concepts, Objects and Classes, operator overloading, inheritance

## Web Technologies

Internet fundamentans, html, css, javascript, PHP fundamentals, file handling and database connectivity using PHP, Web optimisation, Web hosting and development tools, introduction to various java web technologies

## Software Engineering

Various software design paradigms, Project management, requirement analysis, software design, user interface design, coding, testing, software reliability

## Computer Communication and Networking

Fundamentals of data communications, switching, routing, email, ftp, http, Radius, Active directory, LDAP

## Operating Systems

Basic concepts, Processor management, memory management, device management, Windows Operating system, Unix/Linux Operating system

## Database

Introduction to database, models, Oracle database(organisation of data, access of data, environment, tuning), SQL, designing a database, creating tables and adding data, introduction to of Big database softwares and tools

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