**Higher Prelim Topic List**

**Computer Systems**

Range Positive & Negative Integers

CPU – Buses and Registers (MAR, MDR)

Vector vs Bitmap (advantages & disadvantages)

Digital Signature Creation

Tracking Cookies and their Misuse

**Database Design & Development**

Data Dictionary – keys, validation, unique

Compound Key

Entity Relationship Diagram (including 1:1, 1:M, M:M)

SQL – Insert records & values, Calculated Field, alias

**Web Design & Development**

CSS - Float, Margin, Padding, Class, Overwriting Styles, Creating Efficient styles

Javascript - OnClick, Function (Validation)

Form data entry, Radio Button, Validation

Website Testing (Persona)

**Software Design & Development**

Scope (meaning of) – Local, global variables

Use of Local vs Global

Actual & Formal Parameters

Reading and understanding Code (dry run)

Trace Table

Breakpoint & Watchpoint

Find Max, Min Algorithm

Record Structure – create and add data to.