Section B: **Computer Science**   **-60 Marks**

1 : Introduction of Computer

      1.1   Introduction and characteristics of computer (Speed, Storage, Diligence,Versality,Electronics, Automatic and Accuracy, Non-intelligent)

      1.2   Types of computer:

      1.2.1 Mainframe computer, minicomputer, microcomputer

      1.2.2 Analog, digital and hybrid computer

      1.3   History and Generation of computer

      1.4   Computer speed and its measurement unit

      1.5   Computer hardware and software

      1.6   Input and output device

      1.7   Specification of PC

2 : Operating system

      2.1   Introduction of computer operating system, main function of operating system, single user and multi user operating system

      2.2   Disk Operating System (DOS), DOS command (internal and external command), system files (Config.sys, IO.sys, MSDOC.sys, autoexec.bat)

      2.3   Windows Operating System, Windows interface, Desktop, files and folder

      2.4   Introduction to open source operating system

      2.5   Computer Memory (ROM, RAM)

3 :Email Internet and Web

      3.1   Introduction of email and internet, URL, Internet addressing

      3.2   WWW, Websites and Webpage, web browsers, web searching

      3.3   Concept internet addressing, URL, DNS, ISP and web hosting

      3.4   Introduction to HTML

         3.4.1 HTML document

         3.4.2 HTML tags

      3.5   Working with text, hyperlinks, Images, Lists, Tables

4 :Number System

      4.1 Introduction of number system

      4.2 Decimal, Binary, Octal, Hexadecimal Number System

      4.3 Conversion from one system to another number system

      4.4 Binary arithmetic

5: Application Package

5.1 Word Processor

5.1.1	Concept and types of Word Processor
5.1.2	Formatting and Editing Text, Page number
5.1.3	Working with Tables, Charts and Graphics
5.1.4	Templates and Styles
5.1.5	Mail Merge and Macro
5.1.6	Hyperlink
5.1.7	Working with Outlines and Long Documents
5.1.8	Typing in Unicode

5.2 Spread Sheet

5.2.1	Fundamentals of Spread Sheet
5.2.2	Workbook and Worksheet
5.2.3	Creating and Working with Charts
5.2.4	Different Functions and Formulas
5.2.5	Data Filter and sorting
5.2.6	Data Analysis and PivotTables
5.2.7	What-If Analysis Unit

5.3 Presentation

5.3.1	Fundamental of Presentation
5.3.2	Designing, Formatting and Editing a Presentation
5.3.3	Transition of Presentation
5.3.4	Animation and Custom Animation
5.3.5	Inserting Tables, Charts, Graphics and Hyperlink
5.3.6	Working with Multimedia

6: Computer Programming

6.1 Concept of computer programming

6.2 Algorithm, flowchart and pseudo code

6.3 Variable, constant, operator, comment, data type, array and functions

6.4 Input/output function, control statement

6.5 Programming in QBASIC

6.6 Concept of Object Oriented Programming

6.7 Structure of C programming

6.8 Comparison of QBASIC programming and C programming

7: ICT and Its Social Impact

7.1 Social impact of ICT

7.2 Digital divide

7.3 Intellectual Properties Right

7.4 Privacy, Anonymity

7.5 Computer ethics

7.6 Computer Crime and Cyber law

7.7 Cyber Law in Nepal

7.8 Computer Crime and Cyber law

7.9 Computer ethics

Subjective Question Plan (Specification Grid)

Unit	Scope of Curriculum	Contentwise question weight	Full Marks
1.	Introduction of Computer	10*1	10
2.	Operating system	10*1	10
3.	Email Internet and Web	10*1	10
4.	Number System	10*1	10
5.	Application Package	10*1	10
6.	Computer Programming		
7.	ICT and Its Social Impact	10*1	10
	Total	**10*6**	**60**

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