

CONTENTS

Chapter 1

THE COMPUTER NETWORK

1.1	Introduction to Computer Network	2
1.2	Communication Media	3
1.3	Elements of Network	10
1.4	Types of Network	12
1.5	Architecture of Network	15
1.6	Network Topology.....	16
1.7	VPN, Cloud Computing	19
1.8	Communication Protocols	20
	Exercise.....	20

Chapter 2

THE INTERNET

2.1	What is Internet?.....	23
2.2	Internet, Intranet, Extranet.....	24
2.3	How to Connect Internet?.....	24
2.4	Internet Services	25
2.5	Internet Protocols.....	25
2.6	WWW	26
2.7	URL.....	27
2.8	Domain name	27
2.9	Search Engine	28
2.10	Email	29
2.11	How to work email.....	30
2.12	Email Protocols	30
2.13	Browser	31

2.14 Social Media	31
2.15 Web 2.0.....	33
2.16 Blogs and Blogging.....	33
Exercise.....	34

Chapter 3

COMPUTER SECURITY VIRUS

3.1 Computer Security	37
3.2 Computer Hacking and Cracking	39
3.3 Computer Virus.....	40
3.4 Firewall.....	42
Exercise.....	43

Chapter 4

CYBER LAW AND COMPUTER ETHICS

4.1 Computer Ethics	45
4.2 Cyber Law	46
4.3 Cyber Law in Nepal	47
4.4 Cybercrime.....	48
Exercise.....	50

Chapter 5

MULTIMEDIA SYSTEM

5.1 Multimedia.....	52
5.2 Characteristics of a Multimedia System	52
5.3 Use of Multimedia	52
5.4 Multimedia Formats.....	53
5.5 Adobe Photoshop	56
Exercise.....	57

Chapter 6

NUMBER SYSTEM

6.1 Number System	59
Exercise	74

Chapter 7

QBASIC INTERFACE

7.1 Concept Formation.....	78
7.2 Introduction	78
7.3 Operators.....	86
7.4 Basic Statements of QBasic	90
7.5 Library Functions	101
7.6 Programming Construct	111
Exercise	123

Chapter 8

FUNCTION AND PROCEDURE

8.1 Introduction	126
8.2 Importance of Modular Programming.....	142
Exercise	165

Chapter 9

FILE HANDLING

9.1 Introduction	172
9.2 What is the Meaning of File Handling?.....	172
9.3 Data Files by Access Mode	174
9.4 Difference between Append / Output	175
9.5 Binary I/O	183
9.6 A Database	187
Exercise	198

Chapter 10

DATA BASE AND DBMS (MS-ACCESS 2007)

10.1 Introduction	204
10.2 Database	204
10.3 Excel or MS Access	205
10.4 Establishing Relationships	215
10.5 Data Validation.....	222
10.6 Form.....	224
10.7 Query.....	241
10.8 Reports	247
Exercise.....	255

Chapter 11

C-PROGRAMMING LANGUAGE

11.1 Background	266
11.2 History of C	266
11.3 Characteristics of C	266
11.4 C Programming Structure	267
11.5 Variable Declaration.....	268
11.6 Arrays and Strings	280
Exercise.....	283

SLC Specification Gride-2066	284
---	------------

SLC 2070 (2014)	286
------------------------------	------------