Chapter 1: Computer Fundamentals

1.	Name at least four early calculating devices.
2.	Name the first operational general purpose computer.
3.	Define the IPO cycle.
4.	Differentiate between data and information
5.	Compare the salient features of first and second generation computers.
6.	Briefly explain types of computer.
7.	Explain the functional components of a computer with the help of a block diagram.
8.	What are the functions of the control unit?
9.	Explain booting process and its types.
10.	Differentiate between : i) Digital computers and Analog computers. ii) Microcomputers and Mini Computers
11.	Give full form of following: i) ENIAC ii) EDVAC iii) UNIVAC iv) RAM v) ROM vi) PROM vii) EPROM viii) EEPROM
12.	Briefly explain all the ports and give example of at least one device that can be attached using that port.
13.	Define and give example of following:- 1. Text editor 2. Compression utility 3. Backup utility 4. Defragmentation utility 5. Word processing Software 6. Database Management System 7. Graphic, Presentation software 8. Spreadsheet 9. Desktop Publishing Software
14.	Define the following: 1. Student Information software 2. Payroll software 3. Hotel Management 4. Reservation software 5. Weather forecasting 6. Inventory Management

Chapter 2 : Software Concepts

Q.1	'Hardware is of no use without software and software cannot be used without hardware.' Explain.
Q.2	How can the software be classified? Name at least one software in each of the categories.
Q.3	What is an operating system? Write names of any two popular operating System.
Q.4	Explain the major functions of an operating system.
Q.5	What is the purpose of a language processor?
Q.6	Differentiate between: (i) An interpreter and a compiler. (ii) Buffering and SPOOLING (iii) Time Sharing and Real Time Operating System
Q.7	Explain any two utilities.
Q.8	What is word processing? Discuss the purpose of word processing software.
Q.9	What is the difference between an Open source Software and a Freeware. Write 2 examples of each.
Q.10	How are Freeware and Free Software different?
Q. 11	Differentiate between CISC, RISC and EPIC.
Q. 12	Give Full Form of 1. CD – R 2. CD- RW 3. DVD- RW 4. BIOS
Q. 13	Find the Hardware and software in following:- Printer, Plotter, Microsoft Word, Calc, CD, Blu-ray disk
Q. 14	Give short notes on: 1. Blu-ray Disk 2. Flash Drive 3. Firewire 4. DVD 5. Printer and its type(impact and non-impact) 6. Input device 7. Output Device 8. Device Driver 9. DMA 10. FAT
Q. 14	Give 1 Example of 1. Mobile OS 2. GUI OS 3. CUI(Character User Interface) OS

Chapter 3 : Number System

Q1	Pick Valid numbers from the given list in different number systems as mentioned below: 567, 9A02, 110111001, 307, 101.01, 8275, 7000, 100F2 a) Octal b) Hexadecimal c) Binary d) Decimal
Q2	Convert the following (a) $(11111010)_2 = (?)_{10}$ (b) $(35.2)_8 = (?)_2$ (c) $(AF4)_{16} = (?)_2$ (d) $(123)_8 = (?)_{10}$
Q3	Convert the following (a) $(246)_{10} = (?)_{16}$ (b) $(11011.101)_2 = (?)_8$ (c) $(3B4)_{16} = (?)_2$ (d) $(721)_8 = (?)_{10}$
Q4	Convert the following as indicated- (a) $(23)_{10} = (?)_2$ (b) $(735)_8 = (?)_2$ (c) $(110100101111)_2 = (?)_{10}$ (d) $(A3F)_{16} = (?)_2$ (e) $(6754)_{10} = (?)_{16}$ (f) $(23.54)_{10} = (?)_2$ (g) $(455.34)_8 = (?)_2$
Q5.	Do the following conversion: (a) $(13.65)_{10} = (?)_2 = (?)_8$ (b) $(BF.A66)_{16} = (?)_2 = (?)_8$ (c) $(F20A)_{16} = (\quad)_2$ (d) $(100101.11)_2 = (?)_{10}$ (e) $(248)_{10} = (?)_8$
Q6.	Give full form of the following: (a) ASCII (b) ISCII (c) UNICODE
Q7.	Write short notes on the following: (a) ASCII (b) ISCII (c) UNICODE