

**Syllabus for MCA Entrance Examination
Uttarakhand Open University, Haldwani**

Unit 1: Generations of Computer

Unit 2: Types of Computer Systems

Unit 3: Computer Hardware and Peripherals

Unit 4: Process and Storage Devices

Unit 5: Storage Devices

Unit 6: Computer System- How it Works: Control Unit, Arithmetic and Logic Unit (ALU), Memory, Processing Data: Read Only Memory (ROM), Function of the Machine Cycle

Unit 7: Operating Systems, Utility Programs and Language Translators: Operating System, Types of Operating Systems, Functions of an Operating System, User Interface, Utility Programs, Language Translators, Application Software, Proprietary Versus Open Source Software

Unit 8: Input and Output Devices: Data Entry at Source, Softcopy Output Devices, Hardcopy Output Devices, Other Types of Printers, Terminals- As Input and Output Devices, Storage Devices, Categories of Storage Devices, Method of Access, Storage Technologies

Unit 9: Communication and Connectivity: Communications, Transaction Processing, Information Retrieval, Electronic Mail and Electronic Messaging, Efficient and Effective Communication, Connecting Computers, Communication System Components, Network Topologies, Local Area Networks (LANs), Metropolitan Area Network (MAN), Wide Area Network (WAN), Web Browsers, Search Engines, World Wide Web Basic Terminology

Unit 10: Sets: Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of the set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and intersection of sets. Difference of sets. Complement of a set, Properties of Complement sets.

Unit 11: Boolean Algebra and Logic Gates



The image shows five handwritten signatures in blue ink, arranged horizontally. From left to right: 1. A signature that appears to be 'R'. 2. A signature that appears to be 'A. S.'. 3. A signature that appears to be 'A. S.'. 4. A signature that appears to be 'J. S.'. 5. A signature that appears to be 'M. S.'.