



অসম লোকসেৱা আয়োগ

ASSAM PUBLIC SERVICE COMMISSION

Jawaharnagar, Khanapara, Guwahati-781022.

SYLLABUS

Junior Manager (IT) in Assam Power Distribution Company Limited (APDCL)
(ADVT. NO. 08/2023 dated 30th March, 2023)

Paper-I

Information Technology

(Multiple Choice Question Type)

(Diploma Course Standard)

Full Marks: 150 Marks

Time: 2-00 hours

Object Oriented Programming in C++: Principles of Object Oriented Programming, Classes & objects, Functions, Constructors & Destructors, Inheritance, Polymorphism, Encapsulation, Pointers in C++, Array, String.

Database Management System: Database system concepts, Database Model, Types of Database, Relational Data Model, ER Diagram & Normalization, SQL, Query Processing & Transaction Processing, Concurrency, Lock Based Protocols.

Operating System: Introduction to Operating System, Evolution, Generations, Components & Services, Process Management, Scheduling Algorithms, Memory Management, I/O management, File System Management, Security & Protection.

Data Structure: Introduction to Data Structure, Principles of Programming & Analysis of Algorithms, Sorting & Searching Algorithms, Stacks, Linked Lists, Type of Lists, Queues, Trees, Tree Types & Traversal Methods, Graphs and Hashing.

Microprocessor and Assembly Language Programming: Basics of Microprocessor, 16 bit Microprocessor, Instruction set, Assembly language programming.

Data Communication & Computer Networks: Basic Network concepts, Network Topologies, Networking Devices, Transmission media, OSI Model, TCP/IP Fundamentals.

Basics of Multimedia and Web Development: Multimedia Basics, Audio Fundamentals, Image Fundamentals, Image and Graphics, World Wide Web & Its Evolution, HTML, CSS.



Computer Organization and Architecture: Software & Hardware Organization of Computers, Addressing Modes, CPU Design, Memory organization, I/O Organization, DMA Data Transfers.

Basic Electronics: Introduction to Digital Electronics, Number System, Logic Gates & Boolean Algebra, Flip-Flops, Memories, Semiconductors, Rectifiers & Filters, Transistors.

Software Development: Software Development Process, Analysis & Design Models, Software Testing Fundamentals.

Computer Hardware and Maintenance: Motherboard & its Components, Memory & Storage Devices, I/O Devices & Interface, Power Supply, Troubleshooting & Maintenance.



Controller of Examinations
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S Y L L A B U S

Junior Manager (Electrical & IT) in Assam Power Distribution Company Limited (APDCL)

(ADVT. NO 08/2023 dated 30th March, 2023)

PAPER-II

GENERAL STUDIES

(Multiple Choice Question Type)

Full Marks: 100 Marks

Time: 2-00 hours

Subject	Item / Topic	Marks
General English	<ol style="list-style-type: none">1. Synonyms, Antonyms2. Prepositions3. Sentence Completion4. Active and Passive Voice5. Spelling Test6. Spotting Errors7. Passage Completion8. Substitution9. Sentence Arrangement10. Transformation11. Idioms and Phrases12. Sentence Improvement13. Joining Sentences14. Error Correction (Underlined Part)15. Error Correction (Phrase in Bold)16. Fill in the blanks	75
General Knowledge	<ol style="list-style-type: none">1. Current Affairs2. General Science3. Basic Computer4. General issues on Environment- ecology, Bio-Diversity and Climate Change- that do not require subject specialization.	25

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