

मालारानी गाउँपालिका गाउँ कार्यपालिकाको कार्यालय



खनदह, अर्घाखाँची है लुम्बिनी प्रदेश, नेपाल

कर्मचारी आवश्यकता सम्वन्धि सूचना प्रकाशित मितिः२०७८/०४/१८

Provincial and Local Governance Support Program (PLGSP) अन्तर्गत यस गाउँकार्यपालिकाको कार्यालयको लागि तपसिल बमोजिमको कर्मचारी सेवा करार मार्फत पदपुर्ति गर्नुपर्ने भएकाले तोकिएको योग्यता पुगेका इच्छुक नेपाली नागरिकहरुबाट आवश्यक कागजातहरु सहित यो सूचना प्रकाशन भएको मितिले १५ (पन्ध्र) दिन भित्र यस गाउँ कार्यपालिकाको कार्यालयमा दरखास्तका लागि आह्वान गरिन्छ।

विज्ञापन नं.	पद	पद संख्या	न्यूनतम शैक्षिक योग्यता
०१-२०७८।०७९	सूचना प्रविधि अधिकृत (IT Officer)		कम्प्युटर Science मा स्नातक वा Engineering मा स्नातक वा प्रमुख विषय कम्प्युटर Science लिई ३ बर्षे स्नातक वा विज्ञान (Physics) मा स्नातक गरि स्वीकृत संस्थाबाट System Analysis Design र Software development मा कम्तिमा ९ महिनाको डिप्लोमा प्राप्त वा BIT, BIM, BBIS, BCA, BCIS, BEIT, BSc.Cs/IT, B-ed csIT उत्तिर्ण

दरखास्त दिने उमेरः २१ वर्ष पुरा भई ३५ वर्ष ननाघेको (महिलाको हकमा २१ वर्ष पुरा भई ४० वर्ष ननाघेको)

दरखास्त दिने स्थानः मालारानी गाउँ कार्यपालिकाको कार्यालय खनदह अर्घाखाँची।

दरखास्त दिने अन्तिम मितिः २०७८ साल श्रावण ३२ गते कार्यालय समय भित्र।

परीक्षा मितिः संक्षिप्त सुची प्रकाशन गर्दा सोही सूचनामा लिखित र मौखिक परीक्षाको मिति तोकिने छ।

पेश गर्नुपर्ने कागजातहरुः लोकसेवा आयोगको ढाँचाको आवेदन फारम, नेपाली नागरिकताको प्रमाणपत्रको प्रमाणित प्रतिलिपी, शैक्षिक योग्यताको प्रमाणपत्रको प्रमाणित प्रतिलिपी, नेपाल बाहिर अध्ययन गरेको भए समकक्षताको

प्रमाणपत्र, कार्य अनुभवका प्रमाणित कागजातहरु।

दरखास्त दस्तुरः मालारानी गाउँपालिकाको मेगा बैक लि. अर्घाखाँची शाखामा रहेको आन्तरिक राजश्व खाता नं. ००४००१०११९७४३ मा रु १००० (अक्षरुपी एक हजार मात्र) जम्मा गरेको भौचर वा मालारानी गाउँ कार्यपालिकाको कार्यालयको राजश्व शाखामा तोकिएको दस्तुर जम्मा गरेको रसिदको सक्कल प्रति पेश गर्नुपर्नेछ। छनौट विधिः मन्त्रालयले तोकेको मापदण्ड अनुसार संक्षिप्त सुची प्रकाशन, लिखित, मौखिक र प्रयोगात्मक परीक्षा।

सेवा सर्तः संघीय मामिला तथा सामान्य प्रशासन मन्त्रालयले तोके बमोजिम।

सेवा सुविधाः नियमानुसार।

नोटःपरीक्षाको पाठ्यक्रम गाउँपालिकाको वेबसाईटमा यसै सूचना साथ संलग्न गरिएको छ।

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प्रमुख प्रशासकीय अधिकृत

लोक सेवा आयोग नेपाल विविध सेवा, राजपत्राष्ट्रित तृतीय श्रेणी, कम्प्युटर अधिकृत पदको खुला अतियोगितालमकू पाठ्यक्रम

(Paper II): Technical Subject

		(10 %)
1.	Comp	outer Fundamentals
	1.1	Computers, Kinds of Computers in respect of size and function
	1.2	Generation of Computers
	1.3	Components and Architecture of Computers, Connecting the Components,
	1.4	Getting started: Orientation to personal computers, system unit, Starting the
	4	computers
	1.5	Input Devices: keyboard, mouse, other input devices
		D. CDII Mamory
	1 7	Storages devices: Overview of Storage Devices, Floppy Disk Dive, Hald Dive,
		Universal Serial Bus (USB) Devices and Other Storage Devices
	1.8	Output devices: Monitors, Printers, Modems, Soundboards
		Dos survival guide: Using Command Prompt, Creating and using
		ATTOCKEC BAT and CONFIG SYS
	1 10	Windows survival guide: Windows Desktop, Program Manager, Organizing the
		Deskton, File Manager
	1 11	Lighting coffware: Heing Application Software
	1.12	Windows Explorer, E-mails, Internet, Intranet, Extranets, Ethernet, HTTP
	1 13	Computer Viruses, Antivirus
	1.10	
2.	Data	Structure and Algorithms (8%)
2.	2.1	Fundamental of Data Structures, Abstract Data types
٠	2.2	Lists, Linked Lists, Stacks
	2.3	O Deignites Organo
	2.4	Trees: Traversal, Implementations, Binary Trees, Binary Search Trees, Balanced
	2.7	Search Trees, AVL Trees
	2.5	Indexing Methods. Hashing Trees, Suffix Trees
	2.6	Worst Case and Expected time Complexity
	2.7	Analysis of Simple Recursive and Nonrecursive Algorithms
	2.8	- 1: Min and Corting
	2.9	Introductory Notions of algorithm design: Divide-and-Conquet, Dynamic
		- Carada Mathada Racktracking
	2.10	2 1 - Leavithms: Denth-first Search and Breadth-first Search, Shortest Land
	2.10	Problems, Minimum Spanning Trees, Directed Acyclic Graphs
		(10%)
3.	Proc	gramming Language Triatery Programming Paradigms. The role
٥.	3.1	Overview of Programming Language: History, Flogramming Language;
	J.1	of Language translates in the Programming Process.
	3.2	Tyndamental Issues in Language Design.
	3.3	
	3.4	Virtual Machines, Code Generation, Loop Optimization. Concept of Procedural Programming, Structural Programming, Object-Oriented
	٦,٩	Concept at a second sec

Java Programming for Declaration, Modularity and Storage Management

Concept of C programming, C++ Programming,

Programming.

Software Development

3.5

लोक सेवा आयोग

नेपाल विविध सेवा, राजपत्राङ्गित तृतीय श्रेणी, कम्प्युटर अधिकृत पदको खुला प्रतियोगितात्मुक्र्यरीक्षाको पाठ्यक्रम परिवर्ती प्रदेश, अपनि

System Analysis and Design 4.

(10%)

Definition of the System, System Owner, System User, System Designers and system Builders, System Analysts, Variations on the System Analyst title, System

Joint Application Development (JAD): JAD definition, JAD purpose, JAD 4.2

Philosophy, JAD Scope

Involved in a JAD: Sponsor, Business Users, System Analyst 4.3

Roles of JAD Group Member: Project Leader, Record Keeper, Time Keeper. 4.4

System Design Environment: Development Process, Management Process, 4.5 System Structure, Basic Component of Computer based Information System, Personal/ Centralized/Distribution System

Introduction, Finding the Problem, Evaluating the Concept formations: Proposal, Technical Feasibility, Operational Feasibility, Economic Feasibility.

Requirements analysis: Representing System Analysis Model, Requirement 4.7 Model, Design Model

Development Process: Design Method 4.8

Entity Relationship Diagram (E-R Diagram): Notations, Entities: Strong Entities, 4.9 Weak Entities, Attributes: Simple and Composite, Single Valued and Multiple Valued, Null and Derived Attribute

4.10 Relationship Sets: Degree of Relationship and Cardinality Relationship,

Specialization, Generalization, Aggregation

4.11 Data Flow Diagrams (DFDs): Introductions, Data flow Diagram, Symbol, Files or data store, External entities, Data flows

4.12 Describing System by Data Flow Diagram: Context diagram, Top level DFD, Expansion Level DFD, Conversions of Data

4.13 Object Modeling: Object -Oriented Concept, Object Structure, Object Feature, Class and Object

4.14 Representation: Association, Composition, Inheritance, Multiple Inheritances

4.15 Modeling: Use Case Diagram, State Diagram, Event Flow Diagram.

4.16 Documentation: Automatic and Manual System

(14%)

Operating Systems 5.

5.1 Definittion, Development and Functions of Operating Systems

5.2 Basic components of the Operating Systems, Information Storage and Management Systems

Disk Allocation and Scheduling Methods, Basic Memory Management strategies, 5.3 Virtual Memory Management Techniques, Define a Process and features of the Process Management System

Features of Process Scheduling; List the features of Inter-Process Communication

and Deadlocks

Concepts of Parallel and Distributed Processing, Identify Security Threats to 5.5 Operating Systems

Overview of the MS-DOS Operating System 5.6

Introduction to the Windows Family of Products, Unix Family of Products, Linux Family of Products

Introduction to Windows Networking 5.8

Windows Architecture, Linux Architecture 5.9

लोक सेवा आयोग

नेपाल विविध सेवा, राजपत्राङ्कित तृतीय श्रेणी, कम्प्युटर अधिकृत पद्को खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

- 5.10 Troubleshooting Windows & Linux
- 5.11 Managing Network Printing
- 5.12 Managing Hard Disks and Partitions
- 5.13 Monitoring and Troubleshooting Windows
- 5.14 Users, Groups and Permission Linux and Windows

6. Database Management System and Design

(8%)

- 6.1 Introduction, A Database Model, Relational Database Model, Integrity, RDBMS
- 6.2 SQL and Embedded SQL
- 6.3 Writing Basic SQL SELECT Statements
- 6.4 Restricting and Sorting data
- 6.5 Single Row Functions
- 6.6 Displaying Data from Multiple Tables
- 6.7 Aggregation Data Using Group Functions
- 6.8 Sub Queries, Manipulating Data and Creating & Managing Tables
- 6.9 Creating Views and Controlling User Access
- 6.10 Using Set Operators, Datetime Function
- 6.11 Database Design: Logical Design, Conceptual Design, Mapping Conceptual to Logical, Pragmatic issues, Physical Design, Integrity and Correctness, Relational Algebra, Relational Calculus
- 6.12 Normalization: 1NF, 2NF, 3NF, BCNF, 4NF, 5NF, DKNF
- 6.13 Architecture of DBMS: Client-server, Open Architectures, Transaction Processing, Multi-User & Concurrency, and Backup & Recovery Database
- 6.14 Basic Concept of major RDBMS products: Oracle, Sybase, DB2, SQL Server and other Databases

7. Networking

(10%)

- 7.1 Basic Network Theory: Network Definition, Network Models, Connectivity, Network Addressing.
- 7.2 Network Connectivity: Data Package, Establishing a Connection, Reliable Delivery, Network Connectivity, Noise Control, Building Codes, Connection Devices
- 7.3 Advanced Network Theory: OSI model, Ethernet, Network Resources, Token ring, FDDI, Wireless Networking
- 7.4 Common Network Protocols: Families of Protocols, NetBEUI, Bridge and Switches, TCP/IP Protocol, Building TCP/IP Network, TCP/IP Suite
- 7.5 TCP/IP Services: Dynamic Host Configuration Protocol, DNS Name Resolution, NetBIOS support, SNMP, TCP/IP Utilities, FTP
- 7.6 Network LAN Infrastructure: LAN Protocols on a Network, IP Routing, IP Routing Tables, Router Discovery Protocols, Data Movement in a Routed Network, Virtual LANs (VLANS)
- 7.7 Network WAN Infrastructure: WAN Environment, Wan Transmission Technologies, Wan Connectivity Devices, Voice Over Data Services
- 7.8 Remote Networking: Remote Networking, Remote Access protocols, VPN
 Technologies
- 7.9 Computer Security: Computer Virus, Worm, Trojan Horse
- 7.10 Network Security: Introduction, Virus Protection, Local Security, Network Access, Internet Security

लोक सेवा आयोग

नेपाल विविध सेवा, राजपत्राङ्गित तृतीय श्रेणी, कम्प्युटर अधिकृत पदको खुला प्रतियोगितीत्मक परीक्षाको पाठ्यक्रम

		्रास्त्रिय राज्य
	7.11	Disaster Recovery: Need for Disaster Recovery, Disaster Recovery plan, Data
		backup, Fault Tolerance
	7.12	Advanced Data Storage Techniques: Enterprise Data Storage, Clustering, Network Attached Storage, Storage Area Networks
	7.13	Network Troubleshooting: Using Systematic Approach to Troubleshooting.
	7.14	Network Support Tools: Utilities, Network Baseline
	7.15	Network Access Points, Common Network Component, Common Peripheral Ports
8.	Comp	outer Architecture & Organization (4%)
	8.1	Evaluation of Computers, Design Methodology, Set Architecture, MIPS ISA, ALU Design
	8.2	Datapath Design: Single and Multiple Cycle Implementations, Pipelining, Memory Hierarchy, Input/Output System: Bus & Role of Operating System
9.	Comp	dier Design
	9.1	Introduction to Compiling (2%)
	9.2	Logical Analysis, Syntax Analysis, Semantic Analysis
	9.3	Run Time environment
	9.4	Intermediate Code Generation, Code Optimization
	9.5	Compiler Generation Tools
10.		
10.	10.1	Introduction to E-Commerce (4%)
	10.2	Electronic Commerce Strategies
	10.3	Electronic Commerce Security Issues
	10.4	Success Models of E-Governance
	10.5	E-Business: b2b, b2c, b2e, c2c, g2g, g2c
	10.6	Principles of Electronic Payment, Strategies & Systems
	10.7	E-marketing, Reverse Engineering
	10.8	E-Banking, EDI Methods, SWIFT
	10.9	Encryption and Decryption Methods, XML, Layout Managers, Event Model
11.		and Web Engineering (10%)
	11.1	Information Systems, Client-Server Computing
	11.2	Information Systems and Decision Making.
	11.3	Database Design issues, Data Mining, Data Warehousing
	11.4	Knowledge Management. The strategic use of Information Technology.
	11.5	Work Process Redesign (Reengineering) with Information Technology,
		Enterprise Resources Planning Systems, Information Systems Security,
		Information Privacy, and Global Information Technology issues
	11.6	Software Supported Demonstrations including advanced Spreadsheet topics
	-	Software Component Based Systems (CBSE)
	11.7	Multimedia
	11.8	Object-Oriented Programming with COMS & DECOMS
	11.9	Group Decision Support Systems
	11.10	Basics of Website Design
12.		Nepal (10%)
12.	12.1	History of IT in Nepal
	12.2	IT Policy of Nepal
	12.3	Electronic Transaction Act
	12.4	
	12.5	1 C C D
	12.6	Nepali Unicode, Nepali Fonts
	1000	

12.7 Licensing Issues