

नेपाली सेना

कम्प्युटर पदिक (स्थायी तथा करार सेवा) पदको लिखित परीक्षाको पाठ्यक्रम

समय : २ घण्टा ३० मिनेट

पूर्णाङ्क : १००
उत्तीर्णाङ्क : ४०

यो पाठ्यक्रम नेपाली सेनाको श्री कल्याणकारी योजना निर्देशनालय अन्तरगत कम्प्युटर पदिक (स्थायी तथा करार सेवा) उम्मेदवार छनौट परीक्षाको लागि निर्धारण गरिएको हो । लेखा पदिक उम्मेदवार छनौटको लिखित परीक्षामा सरिक हुने उम्मेदवारहरूको पेशा सम्बन्धि विषयलाई आधारमानी प्रश्नहरू सोधिने छ ।

- (क) लिखित परीक्षाको माध्यम नेपाली/अंग्रेजी वा द्वै भाषा हुनेछ ।
- (ख) लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र अर्को चरणको परीक्षामा सम्मिलित गराईने छ ।
- (ग) प्रश्न पत्र निर्माण गर्दा पाठ्यक्रममा समावेश भएका सबै विषयहरूलाई समेटिनेछ ।
- (घ) नेपाली सेनाको आवश्यकता तथा विविध परिस्थितमा नेपाली सेना अनूकूल हुने गरी उल्लेखित विवरणहरूमा हेरफेर हुन सक्नेछ ।
- (ङ) पाठ्यक्रमको रूपरेखा देहायमा उल्लेख गरे अनुसार हुनेछ ।

सि.नं.	प्रश्नको किसिम	प्रश्न संख्या र अंक	समय
१.	वस्तुगत प्रश्न (Objective) बहूवैकल्पिकप्रश्न (MCQS)	५०x१=५०	२ घण्टा ३० मिनेट
२.	छोटो उत्तर दिनु पर्ने प्रश्न (Short Questions)	६x५=३०	
३.	लामो उत्तर दिनु पर्ने प्रश्न (Long Questions)	२x१०=२०	

(च) पाठ्यक्रम लागू मिति : २०७१/०९/ गतेदेखि ।

१. पेशा विषयको पाठ्यक्रम विवरण :

Evolution of Computer: History and Generation of Computer 5%

Types of Computer: Digital PC, Micro, Mini, Mainframe & Super Computer, Comparison between them (speed, memory, storage) 5%

Computer System: Computer Architecture, Media, Devices and Peripherals, Software and their Classification 5%

Operating System: Introduction and Importance of Operating System, Types of Operating System (Dos, Windows, Linux) 5%

Programming Concept: Flowchart, Data Flow Diagram, Algorithm & Pseudo Code, Control Statement, Looping, Array, Stack, Unconditional Jump Statement, Concept of Object Oriented 20%

Software Package: Word Processing Packages, Spread Sheet Package, Presentation Package, Database Package 5%

System Development Concept: Feasibility Study, System Development, Life Cycle, System Security 5%

Database Management System: Data Modeling, Purpose, Components, Relationships, Entities and Attributes, Domains and Identifiers, Methodology, Top-Down Methodology, Normalization, Database Design, Relational Model, Network Model, Hierarchical Model, Data Security, Structure Query Language 25%

Network: ISO/OSI Reference Model, Introduction, Computer Networks, Transmission Media, Topologies and Types of Networking, Internet and Intranet, E-mail 5%

Web Application: HTML tags, Image and types, Lists and Forms, Tables, Frames, Hyperlink, Server Side Scripting and Client Side Scripting, PHP, .NET 15%

Hardware: Resistors and Conductors, Nature of Electricity, Theories of Current flow, Memory and its types, Network Devices (Component of Dialup and LAN), Monitors (CRT, LCD), Printers and types 5%

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कम्प्यूटर पदिक (स्थायी तथा करार सेवा) पदको प्रयोगात्मक परीक्षाको पाठ्यक्रम

पूर्णाङ्क : २५
उत्तीर्णाङ्क : १२.५

S.N.	Topics	Marks	Time(Minutes)
1	Database	8	
2	Web Page Designing	6	
3	Programming	6	
4	Computer Network/Hardware Viva	5	
	Total	25	

1. Database

Basic Concept of Tables, Fields, Records, Relationships and Indexing

- Data Types, SQL Query
- Creating, Modifying & Deleting Tables and Formatting & Validating Field Data
- Creating, Modifying, Deleting & Using Simple Queries
- Creating, Modifying & Deleting Forms/Reports/Macros

2. Web Page Designing

- HTML Document
- Tags
- Skeleton & Flesh
 - ✓ Text
 - ✓ Hyperlinks
 - ✓ Images
 - ✓ Lists & Forms
 - ✓ Tables
 - ✓ Frames

3. Concept of C Programming

- Data Variables, Data Types and Rules for naming and declaring data variables
- Basic Data Types In C
- Formatted Input/Output
- Expressions
- Selection Statements, Loops
- Basic Types
- Arrays
- Decision Control Instructions
 - ✓ If
 - ✓ If-else
 - ✓ If-else-if

- ✓ Nested if-else
 - ✓ Conditions
 - Loop Control Instructions
 - ✓ For Loop
 - ✓ While Loop
 - ✓ Do while
 - Functions
 - Pointers
 - Pointers and Arrays
 - Strings and Preprocessor
 - Libraries
 - File I/O
4. **Network**
Types of network, Network topologies (Physical, Logical), Internet and intranet, Emails
5. **Servers**
Print Servers, Print Servers Functionality, Print Server Advantages and disadvantages, Web Server, Web Server Features, Web Server Functionality, DHCP Server, DHCP Server Functionality, RAID Server, RAID Server Functionality, File server, Database server, proxy server, DNS Server
6. **Network Components**
Routers, Bridges, Hub, Switches, Protocols, Gateways, Filters, Network Cards, Cables (Coaxial cable, Optical Fiber, Twisted pair Cables)
7. **Internet Architectures**
Peer- to – Peer architecture, Client Server architecture.
8. **OSI Model**
Physical Layer, Data link Layer, Network Layer, Transport Layer, Session Layer, Presentation Layer, Application Layer, Functions of each Layer.