

लोक सेवा आयोग  
नेपाल इञ्जिनियरिङ्ग सेवा, सिभिल एभिएशन अपरेशन एण्ड इञ्जिनियरिङ्ग समूह, सिभिल एभिएशन अपरेशन  
उपसमूह, राजपत्राङ्कित तृतीय श्रेणी पदको खुल्ला तथा आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

द्वितीय पत्र :- नागरिक उड्डयन (Civil Aviation) सम्बन्धी विषय

## Section A- 30 Marks

1. Role & Function of Ministry of Culture Tourism & Civil Aviation and Civil Aviation Authority of Nepal (CAAN)
  - 1.1 Duty, Responsibility & Authority of issuance license for Air Operator Aircraft Maintenance Organization, Flying school, Fleet permission, Fleet Change & Route permission
  - 1.2 Function & Responsibility of Civil Aviation Authority of Nepal
3. Liberal Aviation Policy & Impact Analysis
  - 3.1 Liberalization and deregulation of the airline industry.
  - 3.2 Privatization of airports.
  - 3.3 Investment and privatization issues.
  - 3.4 Impact of Liberal Aviation Policy in Nepal
  - 3.5 Aviation Insurance Policy
  - 3.6 Airlines Business
4. International Civil Aviation Organization and Air Service Agreement
  - 4.1 Overview of International Civil Aviation Organization (ICAO)
    - 4.1.1 History of ICAO
    - 4.1.2 Chicago Convention & Other Conventions/Protocols.
    - 4.1.3 Role and function of ICAO
    - 4.1.4 Structure of ICAO
    - 4.1.5 International Standards & recommended practices (SARPs) in Air Navigation.
  - 4.2 International Air Service Agreement (ASA)
    - 4.2.1 Principles
    - 4.2.2 Elements
    - 4.2.3 Freedom of air
    - 4.2.4 Bilateral Air Services Agreement
    - 4.2.5 Multilateral Air Services Agreement
    - 4.2.6 Negotiation
    - 4.2.7 Traffic Rights
    - 4.2.8 Air Service Agreement with Various Countries

## Section B- 20 Marks

2. Aviation Legislation
  - 2.1 Requirement of Civil Aviation legislation
  - 2.2 International Air Law
  - 2.3 Nepalese Civil Aviation Policy, Legislation and Requirements
    - 2.3.1 Civil Aviation Policy of Nepal
    - 2.3.2 Civil Aviation Act - 2015
    - 2.3.3 Civil Aviation Authority of Nepal Act - 2053
    - 2.3.4 Civil Aviation Rules 2052

## लोक सेवा आयोग

नेपाल इञ्जिनियरिङ्ग सेवा, सिभिल एभिएशन अपरेशन एण्ड इञ्जिनियरिङ्ग समूह, सिभिल एभिएशन अपरेशन उपसमूह, राजपत्राङ्कित तृतीय श्रेणी पदको खुल्ला तथा आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

- 2.3.5 CAAN Civil Aviation Rules – 2058
- 2.3.6 Aviation Security (Management) Rules – 2046
- 2.3.7 Civil Aviation (Investigation of Accident) Rules 2024
- 2.3.8 Airport Charge Rules 2038
- 2.3.9 Manual & Requirement, Air operator certificate requirement (AOCR), Nepalese Civil Airworthiness Requirement, (NCAR), and Flight Operation Requirement. (FOR)
- 2.3.10 Aeronautical Information Publication (AIP) Nepal
- 2.4 Organization and regulation of Int'l Air Transport
- 2.5 Air carrier liability

## Section C- 30 Marks

- 5. Air Transportation & Management
  - 5.1 Air Transportation & Development
    - 5.1.1 Role of Air Transportation in International Link.
    - 5.1.2 Developmental impact of air transportation system
    - 5.1.3 Relation between air transportation & Trade/Tourism industry
    - 5.1.4 Role of air transport in the national economy and regional development in Nepal
    - 5.1.5 Obligation of Govt. in Social Sector and Role of Civil Aviation
  - 5.2 Basic Management Issues in Air Transportation
    - 5.2.1 Strategic Planning for Air Transportation
    - 5.2.2 Organizational Process
    - 5.2.3 Leading in Air Transportation
    - 5.2.4 Controlling in Air Transportation
- 6. Airport and Airspace
  - 6.1 Airport Planning
    - 6.1.1 Objective of Airport Planning
    - 6.1.2 Elements of Airport Planning
    - 6.1.3 Planning Criteria
    - 6.1.4 Land use Planning
    - 6.2.5 Economic & environment impact evaluation
  - 6.2 Air Space Management (Planning)
    - 6.2.1 Airspace utilization and management
    - 6.2.2 Routes Planning and management
- 7. Services and Development
  - 7.1 Traffic Forecast (Passenger, Cargo, Mail, Aircraft Movement)
    - 7.1.1 Forecasting process
    - 7.1.2 Technique of forecasting
    - 7.1.3 Selection of forecasting techniques
  - 7.2 Aviation Security and Facilitation
    - 7.2.1 Introduction
    - 7.2.2 Organization, Planning & Management
    - 7.2.3 National civil aviation facilitation programme (NCAFP)
    - 7.2.4 National Civil Aviation Security Programme (NCASP)

लोक सेवा आयोग

नेपाल इञ्जिनियरिङ्ग सेवा, सिभिल एभिएशन अपरेशन एण्ड इञ्जिनियरिङ्ग समूह, सिभिल एभिएशन अपरेशन उपसमूह, राजपत्राङ्कित तृतीय श्रेणी पदको खुल्ला तथा आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

**Section D- 20 Marks**

8. Safety Management System
  - 8.1 Safety Culture in Aviation
  - 8.2 ICAO requirement for Safety Management System
  - 8.3 Need for Safety Management System
  - 8.4 Approaches to Safety Management System
  - 8.5 Auditing in Aviation
9. Meteorology
  - 9.1 Weather Phenomena
  - 9.2 Composition and Structure of Atmosphere
  - 9.3 Thermodynamics of Atmosphere
  - 9.4 Atmosphere Turbulence, Climate, Climatology, Climatic Changes.
  - 9.5 Weather Forecast Method
  - 9.6 Use of weather Forecast in Aviation
  - 9.7 Basic application of meteorological equipment in civil aviation
10. Environment Protection & Aircraft Operations
  - 10.1 Protection of environment due to aircraft operations
  - 10.2 Noise abatement
  - 10.3 Standards of aircraft operations
  - 10.4 Airworthiness
  - 10.5 Transfer of dangerous goods by air
  - 10.6 Human factors associated in aviation
  - 10.7 Satellite based air navigation systems & procedures (viz. GPS, GNSS, RNAV, Instrument procedures)

द्वितीय पत्रहरूका एकाइहरूबाट सोधिने प्रश्नसंख्या निम्नानुसार हुनेछ :

द्वितीय पत्रका खण्ड	A			B		C		D		
द्वितीय पत्रका एकाई	१	३	४	२	५	६	७	८	९	१०
प्रश्न संख्या	१	२	१	१	१	१	१	१	१	१

**Model Questions**

1. Describe the role of Ministry of Culture, Tourism and Civil Aviation for the development of civil aviation sector in Nepal.
2. Define liberal sky policy. Assess the impact of liberal sky policy for the sustainable growth of Airlines industry in Nepal
3. Describe the elements of airport master planning.
4. Evaluate the role of air transport for the poverty alleviation and regional development in Nepal.
5. Explain the function of Civil Aviation Authority of Nepal.
6. Describe the Importance of International Standards & recommended practices (SARPs) in Air Navigation.
7. Discuss about the basic management issues in air transportation.
8. Underline the role and functions of ICAO for the development of international civil aviation?
9. Highlight the freedoms of the air.
10. Write short notes on any two :
  - a. Safety culture in Aviation
  - b. Use of weather forecast in aviation
  - c. Need of safety management system