

नेपाल नागरिक उड्डयन प्राधिकरण
प्राविधिक सेवा, एयर ट्राफिक सर्भिसेज समूह, एघारौं तह, निर्देशक पदको खुला/आन्तरिक प्रतियोगितात्मक
लिखित परीक्षाको पाठ्यक्रम
द्वितीय पत्र : सेवा सम्बन्धी
खण्ड (क) - ६० अङ्क

1. Rules of the Air

- 1.1. Definitions, Applicability of the Rules of the Air, General Rules, Visual Flight Rules, Instrument Flight Rules, Interception of Civil Aircraft, principles to be observed by States during interception, Tables of Cruising Levels, Unlawful interference, Remotely piloted aircraft systems, Unmanned free balloons (CAR 2)
- 1.2. Implementation of Standards contained in Rules of the Air (Annex-2) in Nepal

2. Air Traffic Services

- 2.1. Definitions, General provisions related to Air Traffic Services (CAR 11)
- 2.2. Air Traffic Control Service, Flight Information Service, Alerting Service, Air Traffic Services Requirements for Communications, Air Traffic Services Requirements for Information, Appendices (CAR 11)

3. Air Traffic Management

- 3.1. ATS System Capacity and—Air Traffic Flow Management (ATFM); Status of implementation of ATFM and Airport Collaborative Decision Making (ACDM) in Nepal and its challenges—Airspace optimization, Issues/challenges associated with effective management of airspace in Nepal

4. Aeronautical Telecommunication (CAR-10, Communication Procedures including those with PANS status)

- 4.1. Definitions; Aeronautical mobile service, Radiotelephony procedures, distress and urgency radiotelephony communication procedures, communications related to acts of unlawful interference, Aeronautical broadcasting service.

5. Aeronautical Information Service

- 5.1. Definitions and general provisions, State Responsibilities, AIS Responsibilities and Functions, Exchange of Aeronautical Data and Aeronautical Information, Aeronautical Information Products and Services, Aeronautical Information Updates Scope of aeronautical data and aeronautical information (CAR 15)
- 5.2. Roadmap for the transition from AIS to AIM; AIS to AIM roadmap implementation status and challenges in Nepal;
- 5.3. Current status or problems of AIS in Nepal and CAAN role for the effective delivery of AIS

6. Search and Rescue

- 6.1. Definitions, Organization, Cooperation, Preparatory Measures, Operating Procedures (CAR 12)
- 6.2. SAR Services Implementation Status of Nepal
- 6.3. Role and challenges of CAAN for effective implementation of SAR Services

7. CNS/ATM Systems

- 7.1. Communications, Navigation, Surveillance/Air Traffic Management System in Nepal: evolution and future
- 7.2. PBN Manual (Doc. 9613)
 - 7.2.1. Area Navigation and Required Navigation Performance
 - 7.2.2. Performance Based Navigation - Infrastructure, Specification and Application

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- 7.2.3. PBN implementation Plan of Nepal
 - 7.3. Global Air Traffic Management Operational Concept (Doc.9854), Manual on Air Traffic Management System Requirements (Doc 9882) and Manual on Global Performance of the Air Navigation System (Doc 9883)
 - 7.4. ICAO global, regional and nation air navigation plans, Global Air Navigation Plan- Performance improvement areas, Relationship between global, regional and national plans
 - 7.5. Basic Building Block (BBB) framework, ASBU framework; Aviation System Block Upgrades-blocks and modules and implementation framework
 - 7.6. ICAO regional initiatives for communication, navigation and surveillance in the APAC Region, Status of compliance by Nepal and Challenges
 - 7.7. APAC seamless ANS Plan-Status of Compliance by Nepal and its challenges;
 - 7.8. Cost Benefit Analysis for Implementing CNS/ATM systems (Circular 257)
- 8. Safety Management**
- 8.1. Definitions, Applicability; State Safety Management Responsibilities; Safety Management System; Safety data and safety information collection, analysis, protection, sharing and exchange (CAR-19)
 - 8.2. Safety Investigation Procedure Manual and its effective implementation
 - 8.3. SSP implementation in Nepal; National Aviation Safety Plan and its effective implementation in Nepal
- 9. Air Traffic services planning (DOC 9426)**
- 9.1. Mixed IFR/VFR operations
 - 9.2. Facilities required by ATS
 - 9.3. Development of an ATS Plan
 - 9.4. Airspace Restrictions and Reservations
 - 9.5. ATC capacity
 - 9.6. Determination of Separation Minima
 - 9.7. ATS Evaluation
 - 9.8. Airspace sectorization
 - 9.9. Application of Automation in Air Traffic Services
 - 9.10. ATS Facility Administration and Management
- खण्ड (ख) - ४० अङ्क**
- 10. Licensing of ATS personnel**
- 10.1. Introduction; Requirements for the issuance of certificate/License/Ratings
 - 10.2. Medical Assessment (Manual of Standards for Licensing/Rating of Air Traffic Control Personnel)
- 11. Aviation Security**
- 11.1. Definitions, General Principles, Organization, Preventive Security Measures, Management of Response to Acts of Unlawful Interference
 - 11.2. Emerging issues in aviation security
- 12. Aircraft Accident & incident investigation**
- 12.1. Definitions, Applicability, General, Notification, Investigation, Organization and Conduct of the Investigation, Final Report, ADREP Reporting, Accident Prevention Measures
 - 12.2. Accident Investigation Recommendations and implementation status in Nepal

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12.3. Accident Investigation database, it's importance and need in Nepal

13. Aerodrome

13.1. ACN, PCN, pavement strength of aircraft movement area, taxiway, runway Visual aids for navigation (CAR 14)

13.2. Aerodrome Certification Process in Nepal and its effectiveness

14. Airport Economics Manual (DOC 9562)

14.1. ICAO's Policies on Charges and States' Responsibilities

14.2. Ownership, control and governance of airports

14.3. Airport economic and financial management

14.4. The process of setting airport charges

14.5. Development and management of non-aeronautical activities

14.6. Financing airport infrastructure

15. ICAO's Policies on charges for Airports and Air Navigation Services (DOC 9082)

15.1. General

15.2. ICAO's policies on airport charges

15.3. ICAO's policies on charges for air navigation services

15.4. Manual on Air Navigation Services Economics (Doc 9161)

16. Airport Management

16.1. Airport development and funding

16.2. Air traffic, capacity and delay-techniques to manage demand

16.3. Airport planning and the role of aviation activity forecasts

16.4. Airport marketing

16.5. Aviation insurance

16.6. Future challenges and opportunities for airports

17. Air Transport

17.1. Key Issues of National Regulatory Processes and Structure, Bilateral Regulation, Major Air Transport Industry Organizations (ACI, CANSO, IATA), Basic Market Access, Air Passengers, Airport Related Matters (Doc. 9626)

18. Miscellaneous

18.1. Convention on International Civil Aviation, Mechanism of SARPs implementation and its effectiveness in Nepal

18.2. Convention for the Suppression of Unlawful Acts against the Safety of Civil Aviation

18.3. Convention on offences and certain other acts committed on board aircraft- Tokyo convention, 1963

18.4. Convention for the suppression of unlawful seizure of aircraft-The Hague Hijacking convention

18.5. Liability of air carriers-Montreal convention and Warsaw convention system

18.6. Aerodrome Rescue and Fire Fighting Services

18.7. Monsoon and its variation within Nepal

18.8. Universal Safety Oversight Audit Program (USOAP)

18.9. Airport Emergency Phases, Airport Emergency Plan (AEP) and its Implementation

18.10. Determination of Operational Safety Risk and its relevance and effectiveness in Nepal

18.11. Safe transport of dangerous goods by air

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द्वितीय पत्रबाट निम्नानुसार प्रश्न सोधिनेछ :

द्वितीय पत्र					
विषय	खण्ड	अङ्कभार	परीक्षा प्रणाली		प्रश्न संख्या X अङ्क
सेवा सम्बन्धी	(क)	६०	विषयगत	समस्या समाधानमूलक प्रश्न	३ प्रश्न X २० अङ्क
	(ख)	४०		सैद्धान्तिक-तर्कयुक्त र विश्लेषणात्मक प्रश्न	१ प्रश्न X १५ अङ्क
				व्यावसायिक योजना/मामिला विश्लेषण सम्बन्धी प्रश्न	१ प्रश्न X २५ अङ्क
जम्मा		१००			