

नेपाल नागरिक उड्डयन प्राधिकरण
प्राविधिक सेवा, एभिएसन फायर सर्भिसेस समूह, छैठौं तह, अधिकृत पदको खुला/आन्तरिक प्रतियोगितात्मक
परीक्षाको पाठ्यक्रम
द्वितीय पत्र – सेवा सम्बन्धी
खण्ड (क) – ५० अङ्क

1. **Chemistry of Fire**
 - 1.1 Introduction of fire
 - 1.2 Classes of fire
 - 1.3 Chemistry of combustion
 - 1.4 Method of extinguishment
 - 1.5 Heat and temperature
 - 1.6 Fire behavior
2. **Airport Emergency Planning (AEP)**
 - 2.1 Introduction, purpose and importance
 - 2.2 Responsibility and role of each agency for each type of emergency
 - 2.3 Emergency Operations Centre (EOC) and mobile command post
 - 2.4 Airport emergency exercises
 - 2.5 Review and documentation
3. **Level of Protection to be Provided**
 - 3.1 Airport category
 - 3.2 Amounts of extinguishing agents
 - 3.3 Supply and storage of extinguishing agents
 - 3.4 Critical area for calculating quantities of water
 - 3.5 Discharge rates
 - 3.6 Response time
 - 3.7 Number of vehicles and equipment
4. **Preventive Maintenance of RFF Equipment and Ancillaries**
 - 4.1 Maintenance procedures
 - 4.2 Maintenance work areas and special tools
 - 4.3 Performance testing of fire vehicles
 - 4.4 Rescue equipment requirements
 - 4.5 Maintenance and documentation
 - 4.6 Maintenance record keeping
 - 4.7 Protective clothing
5. **Aviation Security**
 - 5.1 Basic concept
 - 5.2 Access control
 - 5.3 Screening
 - 5.4 Airside and land side area
 - 5.5 Airport permit
6. **Fire Service Communication**
 - 6.1 System and facilities
 - 6.2 Communication procedure
 - 6.3 Logging System
 - 6.4 Alerting System
 - 6.5 Message receiving and dissemination procedure

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7. **Ambulance and Medical Services**
 - 7.1 Importance
 - 7.2 Triage and medical care
 - 7.3 Care of ambulatory survivors
 - 7.4 Care of fatalities
 8. **Fire Prevention**
 - 8.1 Causes of fire
 - 8.2 Inspection, fire risk and preventive measures
 - 8.3 Fire detection, protection and suppression system
 - 8.4 Fire prevention and public education
 - 8.5 Fire prevention during refueling operations
 9. **Aircraft Types, Engines and Systems**
 - 9.1 Types of aircraft
 - 9.2 Aircraft engines
 - 9.3 Aircraft systems
- खण्ड (ख) – ५० अङ्क
10. **Extinguishing Agents**
 - 10.1 Type of extinguishing agents
 - 10.2 Characteristics of extinguishing agent
 11. **Rescue and Fire Fighting Service**
 - 11.1 Fire station administration
 - 11.2 Fire station activities
 - 11.3 Leadership
 - 11.4 Design and siting of airport fire station
 - 11.5 Equipment and ancillaries
 12. **Personnel Protective Equipment and Self-Contained Breathing Apparatus**
 - 12.1 Introduction
 - 12.2 Types of breathing apparatus
 - 12.3 Components of self-contained breathing apparatus
 - 12.4 Donning and doffing methods
 - 12.5 Care and maintenance
 13. **Aircraft Firefighting and Rescue Procedure**
 - 13.1 Fighting aircraft and helicopter fires
 - 13.2 Rescue tactics and associated equipment requirements
 - 13.3 Accidents involving dangerous goods
 - 13.4 Post-accident procedures
 - 13.5 Post-incident operations
 - 13.6 Compartment fire & tactical ventilation
 14. **Aerodrome Safety**
 - 14.1 Concept of State Safety Program (SSP)
 - 14.2 Safety policy, Safety risk management, Safety assurance & Safety promotion
 - 14.3 Hazard identification, Safety Risk Assessment, Risk mitigation, gap-analysis, Acceptable Level of Safety, SMS implementation plan

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15. **Dangerous Goods**
 - 15.1 Introduction
 - 15.2 Categories
 - 15.3 Packaging and labeling
 - 15.4 Provision of handling Dangerous goods for the safe air transportation in Nepal
16. **Airport Certification Regulation**
 - 16.1 Airport certificate
 - 16.2 Aerodrome manual
 - 16.3 Obligation of the airport operator
 - 16.4 Exemptions
 - 16.5 ICAO requirement on aerodrome certification
 - 16.6 Aerodrome certification requirements in Nepal
17. **Human Factors Principles**
 - 17.1 General
 - 17.2 SHELL Model
 - 17.3 Human Factors Issue in RFF Service
 - 17.4 Operational effectiveness and standards
 - 17.5 Safety and well-being of RFF personnel
18. **Airport Facilities Affecting Rescue and Firefighting Services**
 - 18.1 Airport water supply
 - 18.2 Emergency access roads

द्वितीय पत्रबाट निम्नानुसार प्रश्न सोधिनेछ :

द्वितीय पत्र (विषयगत)				
विषय	खण्ड	अङ्कभार	छोटो उत्तर	लामो उत्तर
सेवा सम्बन्धी	(क)	५०	२ प्रश्न X ५ अङ्क = १०	४ प्रश्न X १० अङ्क = ४०
	(ख)	५०	२ प्रश्न X ५ अङ्क = १०	४ प्रश्न X १० अङ्क = ४०
जम्मा		१००	४ प्रश्न X ५ अङ्क = २०	८ प्रश्न X १० अङ्क = ८०