NATIONAL CADET CORPS (N.C.C) – (CODE: 076)

Class XI (2023-24) Max Marks - 70

Common Subjects

Sommon Subjects	
Unit-1 : The NCC	
Aims and Objectives of NCC	
Organization and Training and NCC Song	
Incentives	
Unit-2 : National Integration and Awareness	
 National Integration: Importance and Necessity 	
Freedom Struggle and Nationalist Movement in India	
Unit-3 : Drill	
Foot Drill	
Arm Drill	
Unit 4 - Weenen Treining	
 Unit-4 : Weapon Training Characteristics of a rifle and its ammunition 	
 Stripping, assembling, care and cleaning of 22 Rifle Loading, cocking and unloading 	
Different positions for holding and aiming	
Unit-5 : Personality Development and Leadership	
 Introduction to Personality development 	
Communication skills	
Leadership traits	
 Time management 	
Unit-6 : Disaster Management and Civil Affairs	
 Types of Emergencies and Natural Disasters 	
Assistance during natural and other calamities: Floods, Cyclones,	
Earthquakes, Accidents	
Unit-7 : Social Awareness Community Development	
Basics of Social Service and its needs	
 Contribution of youth towards social welfare 	
Civic responsibilities	
Unit-8: Health and Hygiene	
Hygiene and sanitation	
 Infectious and contagious diseases and its prevention 	
Hait O. Advantage and Obstack Taxini	
Unit-9 : Adventure and Obstacle Training	
Obstacle training	
Unit-10 : Environment Awareness and Conservation	
Natural resources – conservation and management Water conservation and rain water baryosting	
Water conservation and rain water harvesting	

Specialized Subject (Army)

Unit 1: Armed Forces

Aim: To acquaint cadets with the Armed Forces

Scope: Introductory and general information about the Armed Forces

- Basic organization of Armed Forces
- Organization of the Army

Unit 2: Map Reading

Aim: To teach cadets elementary map reading Scope: Basic understanding of map sheets and map reading instruments and development of capability to use them to carry out simple map reading

- Introduction to types of Maps and conventional signs
- Scales and grid system
- Topographical forms and technical terms
- Types of bearings and use of service protractor
- Prismatic compass and its use and GPS

Unit -3 Field Craft and Battle Craft

Aim: To teach cadets elementary field craft and battle craft Scope: Basic field craft and battle craft

- Judging distance
- Description of ground

Unit-6 : Communication

Aim: To introduce cadets to the latest trends in the field of communications Scope: Types of communications and future trends

- Types of communication
- Characteristics of wireless technology (mobile, Wi-Fi etc.)

Unit-5 : Military History

Aim: To provide knowledge of renowned Military Generals, PVCs and Indo-Pak Wars

Scope: Introduction to biographies, famous Indian battles and gallantry awards
Biographies of renowned generals (Carriappa/ Manekshaw)

Unit-6 : Communication

Aim: To introduce cadets to the latest trends in the field of communications Scope: Types of communications and future trends

- Types of communication
- Characteristics of wireless technology (mobile, Wi-Fi etc.)

Specialized Subject (Navy)

Unit-1: Naval Orientation and service subjects

Aim: To impart basic knowledge about Navy

Scope: Basic knowledge, history, current organization and role of different branches

- History of the Navy pre and post-independence, gallantry award winners
- Organization of the Navy, NHQ, commands and fleets
- Types of War ships and role
- Rank of officers and sailors and their equivalent in other services

Unit-2 : Naval Communication

Aim: To impart basic knowledge about naval communication

Scope: To impart basic knowledge about naval communication, semaphore and wearing of flags

Introduction to modern naval communication, purpose and principles

Unit-3: Seamanship

Aim: To impart basic knowledge about navigation Scope: Basic navigation tactics and methods

Parts of Anchor, cable and its identification •

Unit-4 : Rigging

Aim: To impart basic knowledge about ropes, rigging and shackles Scope: Basic rope work and introduction to ropes, bends and hitches

- Types of ropes and breaking strength stowing, maintenance and securing •
- . Practical bends and hitches

Unit-5 : Boat Work

Aim: To impart basic knowledge about boats and its parts and steering of boats Scope: Introduction to boats and its parts including steering of boats and boat pulling

- Parts of a boat and parts of an oar ٠
- Instructions on boat pulling

Unit-6 : Ship and Boat Modeling

Aim: To impart basic knowledge about ship modelling to the cadets

Scope: To impart basic knowledge about ship construction and boat modelling

Principles of Ship Modelling

Unit-7 : Search and Rescue

Aim: To impart basic knowledge about search and rescue

Scope: To impart knowledge about SAR organization and role of Coast Guard

SAR Organization in the Indian Ocean

Specialized Subject (Air Force)

Unit-1: General Service Knowledge

Aim: To impart basic knowledge of IAF Scope: History and Organization of IAF

- Development of Aviation •
- History of IAF

Unit-2 : Principles of Flight

Aim: To introduce principles of flight

Scope: To impart knowledge about basic principles on which aviation is based Laws of Motion

Glossary of Terms •

Unit-3 : Airmanship

Aim: To introduce the concept of airmanship

Score: Airfield layout, Rules of the air, ATC procedures and basics of aviation medicine

- Airfield Lavout •
- Rules of the Air

Gircuit Procedure
Unit-4 : Aero Engines
Aim: To introduce basic knowledge of aero engines
Scope: Introduction to aero engines
Unit-5 : Air frames
Aim: To introduce basic structure of an aircraft
Scope: Introduction to various aircraft controls and landing gear
Aircraft Controls
- Landing Gear

Landing Gear

Unit-6 : Instruments

Aim: To provide knowledge of aircraft instruments Scope: To teach basics about flight instruments

• Basic flight instruments

Unit 7: AircraftParticulars

Aim: To provide knowledge of aircraft Instruments

Scope: Knowledge about the aircraft to be flown including checks and procedures Aircraft particular type specific ٠

Unit-8 : Aero-modeling

Aim: To provide knowledge about aero modelling

Scope: History of aero modelling, materials used in different types of models History of Aero-modelling •

Types of aero-models •

NATIONAL CADET CORPS (N.C.C) - (CODE: 076)

Class XII (2023-24) Max Marks - 70

Common Subjects

Unit-1 : National Integration and Awareness

Aim: To inculcate sense of patriotism, secular values and motivate cadets to contribute towards nation building through national unity and social cohesion Scope: The concepts of national interests, objectives and integration, unity in diversity and cultural heritage of India

- National Interests, Objectives, Threats ad Opportunities
- Problems/ Challenges of National Integration

Unit-2 : Drill

Aim: To inculcate a sense of discipline, improve bearing, smartness, ant turnout and to develop the quality of immediate and implicit obedience of orders

Scope: All important basic aspects of drill including ceremonial drill, drill with arms and words of command

Drill with Arms

- Getting on parade with rifle and dressing at the order
- Dismissing and falling out
- Gun salute, Salami Shastra
- Squad drill
- Short/long trail from the order and vice-versa
- Examine arms

Ceremonial Drill

Guard Mounting

Unit-3 : Weapon Training

Aim: To give elementary knowledge about rifles Scope: Basic knowledge about rifle and firing

- The lying position, holding and aiming
- Trigger operation and firing a shot
- Range precautions and safety precautions
- Theory of group and snap shooting

Unit-4 : Personality Development and Leadership

Aim: To develop an all-round dynamic personality with adequate leadership traits to deal/ contribute effectively in all walks of life

Scope: Basic subjects of leadership with emphasis on self-awareness, life/soft skills, time management and character building

- Self-Awareness-know yourself/ insight
- Inter personal relationship and communication
- Communication skills: group discussions/ lectures
- Time management
- Interview Skills
- Sociability: Social Skills

Unit-5 : Disaster Management

Aim: To train Cadets to assist Civil administration in performance of selective duties during disasters

Scope: Basic information about civil defense organization and its duties, maintenance of essential services and providing assistance to civil administration in various types of emergencies during national disasters

- Fire Service and Fire Fighting
- Assistance during natural/ other calamities: Flood/ cyclone/ earthquake/ accident etc.

Unit-6 : Social Awareness Community Development

Aim: To teach cadets the values and skills involved in providing voluntary Social Service

Scope: Understanding of social service and its needs, knowledge about the weaker sections of our society and their requirements, about NGOs and contribution of youth towards social welfare

- NGOs Role and contribution
- Drug abuse and trafficking
- Corruption

• Social evils viz. dowry/ female feticide/ child abuse and trafficking etc.

Unit-7: Health and Hygiene

Aim: To instill respect and responsibility towards personal health and hygiene Scope: Basic information about maintenance of health and hygiene, sanitation, disease and an elementary knowledge of First Aid and Nursing

- Hygiene and sanitation (Personal and Food Hygiene)
- Basics of first aid in common medical emergencies
- Wounds and fractures

Unit-8 : Adventure Training and Obstacle Training

Aim: To inculcate a sense of adventure and develop confidence, courage and determination

Scope: To expose cadets to various adventure activities

Para sailing

Unit-9 : Environment Awareness and Conservation

Aim: To sensitize the cadets on natural resource conservation and protection of environment

Scope: Basic understanding of environment in general and waste management in particular, energy conservation, pollution control and wildlife conservation in particular

- Waste management
- Pollution control water, air, noise, soil

Specialized Subject (Army)

Unit-1 : Armed Forces

Aim: To acquaint cadets with the Armed Forces Scope: Introductory and general information about the Armed Forces

- Modes of entry in to army
- Honours and awards

Unit-2 : Map Reading

Aim: To teach cadets elementary map reading

Scope: Basic understanding of map sheets and map reading instruments and development of capability to use them to carry out simple map reading

- Cardinal points and types of North
- Types of bearings and use of service protractor
- Setting a map, finding North and own position

Unit-3 : Field Craft and Battle Craft

Aim: To teach cadets elementary field craft and battle craft Scope: Basic field craft and battle craft

- Judging distance observation, camouflage and concealment
- Field signals

Unit-4 : Introduction to Infantry Weapons and Equipment

Aim: To introduce cadets to infantry weapon

Scope: Introduction to characteristics and capabilities of infantry weapons

• Characteristics of 5.56 INSAS rifle, ammunition, firepower, stripping, assembling and cleaning

Unit-5 : Military History

Aim: To provide knowledge of renowned Military Generals, PVCs and Indo-Pak Wars

Scope: Introduction to biographies, famous Indian battles and gallantry awards Indian Army War Heroes

• Study of Indo Pak wars of 1965, 1971 and Kargil

Unit-6 : Communication

Aim: To introduce cadets to latest trends in the field of communications Scope: Types of communications and future trends

Characteristics of walkie-talkie

Specialized Subject (Navy)

Unit-1 : Naval Orientation and Service Subjects

Aim: To impart basic knowledge about Navy

Scope: Basic knowledge, history, current organization and role of different branches

- Organization of Ships and on board organization
- Naval customs and traditions
- Modes of entry into the Indian Navy

Unit-2 : Naval War fare and its Components

Aim: To impart basic knowledge about Naval Warfare

Scope: Overview of fleet operations to include aviation, submarine operations and missiles

Introduction to anti-submarine warfare

Unit-3 : Naval Communication

Aim: To impart basic knowledge about Naval communication

Scope: To impart basic knowledge about naval communication organization, semaphore and wearing of flags

Introduction to Semaphore

Phonetic Alphabets

Unit-4 : Navigation

Aim: To impart basic knowledge about navigation

Scope: Basic navigation tactics and methods and equipment used for navigation

- Navigation of ships-basic requirements
- Types of compass-gyro and magnetic, types of North
- Simple chart work
- Brief characteristics of its tides and its effects on ships

Unit-5 : Seamanship

Aim: To impart basic knowledge about navigation Scope: Basic navigation tactics and methods

• Types of anchor, purpose and holding ground

Unit-6 : Boat Work

Aim: To impart basic knowledge about boats and its parts and steering of boats Scope: Introduction to boats and its parts including steering of boats and boat pulling

- Demonstrate rigging of a whaler and enterprise boat and parts of a sail
- Instructions in enterprise class boat including elementary sailing rules

Unit-7 : Fire Fighting, flooding and damage control

Aim: Introduction to fire-fighting, flooding and damage control Scope: Impart basic knowledge about fire-fighting, flooding and damage control of a ship

Causes of damage, flooding and damage control

Unit-8 : Ship and boat modeling

Aim: To impart basic knowledge about ship modeling to cadets

Scope: To impart basic knowledge about ship construction and boat modeling.

- Types of models
- Ship model competition
- Care and handling of power tools

Specialized Subject (Air Force)

Unit-1 : General Service Knowledge		
Aim: To impart basic knowledge of IAF		
Scope: Organization of IAF		
Organization of Air Force		
Branches of Air Force		
Unit-2 : Air Campaigns		
Aim: To introduce Air Campaigns of Air Force		
Scope: An overview of important campaigns		
Indo Pak War 1971 OD Sefect Server		
OP Safed Sagar Unit-3 :Aircraft Recognition		
Aim: To introduce various aircrafts of the Air Force		
Scope: Types, roles, variants of aircraft of the IAF		
 Fighters 		
Transports		
Helicopters		
 Unit-4: Principles of Flight Aim: To introduce principles of flight Scope: To impart knowledge about basic principles on which aviation is based Bernauli's theorem and Venturi Effect Aerofoil Forces on an aircraft 		
 Unit-5 : Airmanship Aim: To introduce the concept of airmanship Scope: ATC Procedures and basics of aviation medicine ATC/RT Procedure Aviation Medicine 		
 Unit-6 : Navigation Aim: To give basic knowledge of Air navigation Scope: Fundamentals of map reading from the air Requirement of navigation Glossary of terms 		
Unit-7 : Meteorology		

Aim: To emphasize the need for knowledge of meteorology in aviation. Scope: Importance, various phenomena of weather and its effects on aviation

• Importance of met in aviation

Unit-8: Aero engines Whole Unit deleted

Unit-9 : Air frames

Whole Unit deleted

Unit-10 : Instruments

Aim: To provide knowledge of aircraft instruments Scope: Introduction to Radars

Unit-11 : Aero-modeling

Aim: To provide knowledge about aero modeling Scope: Materials used in different types of models. Building /Flying of aero-models