

NPM/LOG/MRWF 33074 ANTI SUB MARINE WARFARE

(21 Periods – 16 Hrs)

Max Marks 50

Pass Marks 25

Type of Exam – Written

Duration – 02 Hrs

PERIOD

TOPIC

01 – 02	Introduction to ASW
03 - 06	Current trends in ASW -Submarine Navies and ongoing trend -Submarine Air carriers – (Western & Chinese concept models)
07-10	Submarine employment, offensive operations, defensive sub operations, sub shallow water operations, sub operational principles, submarine operating procedure, likely actions on detection by surface forces, popular myths about submarines, sub rescue vehicles
11	Unconventional type Under Water Craft (Ex LTTE) -Human torpedo -Dummy submersible craft
12	SLN countermeasures against Ex LTTE UW craft -Tactics used by Fleet units -Tactics used by Harbour Defence units
13	Introduction and application of Under Water Acoustics (UWA) in ASW
14	Use of sound in ASW and its purposes
15	Speed of sound, Factors affecting sound speed – Temperature, Salinity and Depth
16	Introduction to SONAR, prime role of SONAR, Principle function of SONAR
17-18	Introduction to port defense/ principal of seaward defense, Methods of detection. Typical HD plan. Operation ward war I/II & III
19-21	Case studies/Assignments - Sinking of Argentine Navy ship General Belgrano by HMS Conqueror (Falkland War) - Sinking of INS Khukri by submarine PNS Hangor (Indo-Pak war 1971)

