

**Subject : Gas Turbine engine Part C Theory**

Topics	Level
<b>15.11 Fuel Systems</b> Operation of engine control and fuel metering systems including electronic engine control (FADEC); Systems lay-out and components	2
<b>15.13 Starting and Ignition Systems</b> Operation of engine start systems and components; Ignition systems and components; Maintenance safety requirements	2
<b>15.15 Power Augmentation Systems</b> Operation and applications; Water injection, water methanol; Afterburner systems.	1
<b>15.17 Turbo-shaft engines</b> Arrangements, drive systems, reduction gearing, couplings, control systems.	2
<b>15.18 Auxiliary Power Units (APUs)</b> Purpose, operation, protective systems.	2
<b>15.19 Power plant Installation</b> Configuration of firewalls, cowlings, acoustic panels, engine mounts, anti-vibration mounts, hoses, pipes, feeders, connectors, wiring looms, control cables and rods, lifting points and drains.	2
<b>15.20 Fire Protection Systems</b> Operation of detection and extinguishing systems.	2
<b>15.21 Engine Monitoring and Ground Operation</b> Procedures for starting and ground run-up; Interpretation of engine power output and parameters; Trend (including oil analysis, vibration and boroscope) monitoring; Inspection of engine and components to criteria, tolerances and data specified by engine manufacturer; Compressor washing/cleaning; Foreign Object Damage.	3
<b>15.22 Engine Storage and Preservation</b> Preservation and depreservation for the engine and accessories/ systems	2