

SIGNALLING AND TELECOMMUNICATION DISCIPLINE
Syllabus for Written Test for Regularisation of Engineer

Section: A – General

1. Preparation of estimates.
2. S&T stores & procurement of materials.
3. Tender & Contracts

Section: B – Signalling

1. Basic concepts of signalling.
2. G&SR, Signal Engineering Manual, Telecommunication Manual, Schedule of dimension, Block Manual.
3. Concepts of Route Relay/ Panel Interlocking & Principles / Standard of Interlocking.
4. Different types of Track occupancy/clearance devices.
5. Requirement and types of Power supply System for signalling installations.
6. Different types of Block Proving Devices.
7. Special requirements of signalling/telecommunication for AC/DC traction.
8. Requirement, installation and maintenance practices of Point machines, signalling cable, power cables, signal lamps, Electrical/Mechanical lifting barrier & other signalling gears.
9. IBH / IBS
10. Centralized Traffic Control.
11. Electronic Interlocking.
12. ETCS / TPWS / AWS.

Section: C – Telecommunication

1. Type of Railway Control Communication and TMS
2. Copper/Optical Fibre Cable for Railway applications.
3. Microwave Communication.
4. General concepts of digital transmission systems.
