

Syllabus for selection of Traffic Inspectors
Preliminary

1. Brief history of Indian Railways
2. Organisational set up of Indian Railways at various levels viz. Railway Board, Zonal Railway and Divisional Railways.
3. Objectives & Functions of Indian Railways.

Knowledge of Updated G&SR Books

1. Definitions
2. Classification of stations.
3. Rules applying to railway servants generally.
4. Signals
 - a) General provisions.
 - b) Description of various fixed signals.
 - c) Signal sighting committee and sighting of signals.
 - d) Equipment of signals.
 - e) Working of signals and points.
 - f) Hand signals.
 - g) De-haling signals.
 - h) Flare signals.
 - i) Defective signals.
5. Working of trains generally :
 - a) Various operating terms & precautions thereof.
 - b) Engine whistle code.
 - c) Speed of trains during failure of headlight, whistle & speedometer and different turn-outs.
 - d) Board and indicators.
 - e) Equipment of train and train crew.
 - f) Precaution during train working - Before starting, during journey & on arrival and working of trains without Brake Van.
 - g) Marshalling & ODC Working and Ghat Rules.
 - h) Working of material train & Track maintenance machines.
6. Control & working of stations :
 - a) Responsibility of Station Master for working.
 - b) Station working Rules.
 - c) Reception of train on obstructed line, unsignalled line and despatch thereof.
 - d) Despatch of train from common Starter Signal Line.
 - e) Rules & responsibility towards shunting - SM, Guard & Driver.
 - f) Types of shunting & securing of vehicles.
 - g) Non-interlock working & train operation during over hauling / cable mегgering / disconnection and re-connection.

7. Abnormal working :
- T.S.L. Working.
 - Working of trains during total failure of communication on line and single line.
 - Protection rules.
 - Train delayed in section.
 - Train stalled on gradient.
 - Requisition of assisting engine and cancellation.
 - Train parting and train dividing.
 - Fire on train.
 - Vehicle escaping.
 - Working of train during thick and foggy weather.
 - Explosion on train and lurch reported.
 - Working of train around flat axles.
8. System of Working :
- On Indian Railways.
 - On Central Railway: Absolute, Automatic & one train only.
 - Essentials of Absolute and lock & block system.
 - Conditions for granting the clear of 'A', 'B' & 'C' class station.
 - Illustrative diagrams of various class of stations.
9. Automatic block system :
- Essentials of Automatic block system on double line.
 - Rules of driver and signaller when automatic signal is at on.
 - Abnormal working during prolonged failure of signals, tele signals and communication. T.S.L. working.
10. Block Working :
- Uses and operation of block instrument & authority to proceed.
 - Train entered into block section without or wrong authority to proceed.
 - Bell Code on block instrument: acknowledgement and action to be taken.
 - Failure of block instrument & action thereupon.
 - Conditions for taking of signals.
 - Private Number sheet & Train Signal Registers.
 - Precautions for clearing back of block section.

11. Permanent Way & Works
 - (i) Maintenance of line.
 - (ii) Patrolling of lines.
 - (iii) Works involving danger to trains or traffic and precautions.
 - (iv) Protection rules.
 - (v) Working of jokers, trailers and motor trailers.
12. Level Crossing
 - a) Working of traffic & engineering gates and train operation.
 - b) Defects of level crossing, obstruction at level crossings, train parting.
 - c) Inspection of level crossing gates - (VU) Height, gauges.
13. Working of train in electrified section:
 - a) Permit to work for electrical equipment.
 - b) Warning to train and signal.
 - c) Working of lower warden.
14. Essentials of interlocking & means of isolation.
15. Knowledge of Accident Manual:
 - a) Definition and classification of accidents.
 - b) Operating procedure and other unusual occurrences.
 - c) Duties of railway officials during accident.
 - d) Rules and regulations in case of an accident.
 - e) Procedure for dealing with cases of sabotage and train wrecking.
 - f) Action to be taken when
 - i) Dangerous or unusual condition noticed on train.
 - ii) Person thrown off / struck down by a train.
 - iii) Suicide / death / murder on train.
 - g) Investigation and enquiry and disposal of enquiry reports.
 - h) Disaster Management
 - 1) Objectives.
 - 2) Levels of disaster management.
 - 3) Duties of various departments.
 - 4) Ordering of A.R.M.F. & A.R.T. (Hooper codes)

16. Higher Transportation:

- a) General principle and methodology of passenger trains time table.
- b) Punctuality and factors affecting the punctuality.
- c) Planning of special trains and new trains.
- d) Rake links - Through & sectional coaches.
- e) Working time table, odd tables & condore blocks.
- f) Control of goods operation at Railway Board, Zonal & Divisional level.
- g) role of Control Office, Stations and marshalling terminal yard.
- h) Pooled and non-pooled wagons.
- i) Congestion of yard / section, congestion and remedies.
- j) Operating statistics.
- k) Line / section capacity & throughput and W.F.R.
- l) Principles of train ordering.
- m) Area control, stock report, D.W.B. and wagon census.
- n) Uses of computer operation for detaching (COIS) & freight operation (FCIS).
- o) Safety organization - Railway Board, zonal and Divisional level along GCRS / CRs organization & functions.
- p) Marshalling yards - Composition and formation of trains.
- q) Priority schedules - O.D.R., W.R.F., Wharfage and demurrage.
- r) Bars and restrictions.
- s) Siding rules - Private and Railway.
- t) Modernization steps for enhancing safety in train operation.
- u) 10 Hours rule, recovery limit and allowances for train working.
- v) Planning on railways - Annual Work Programme (DCA & ROR Techno traffic trends / targets of future traffic requirements with analysis of bottlenecks, Daily / Periodical performance reports, Interchange liaison and commitment.
- w) Introductory knowledge of units connected with Indian Railways. RCR, RIES, RCON, RNDOR, RALNER, MKVC, RVNI, KRGL, PRGL, RLDA etc.
- x) Initiatives to increase freight traffic - freight forwarding scheme, station station rate, double, Double container, RORO, OWYS, BOL Scheme, payment of freight through RDS electronic network, found the cost loading, use of FOIS to take decisions etc.

17. C&W:

- 1) Wagon and coaching stocks mechanical codes.
 - 2) Brake continuity test.
 - 3) Brake power certificate.
 - 4) Train working with flat tyre and clamps.
 - 5) Kinds of rakes - CC, Jumbo, merry go round, Unif train, jugglers, sheeps.
18. Registers & Books maintained in Yards / Stations / Control Office.
19. Man Power Planning
20. HOER
21. Leave & Pass ~~Rules~~ Rules