

**SELECTION FOR THE POST OF LOCO INSPECTOR/SAFETY/HQ
ON 27.02.10**

**Time : 3 hours
Marks : 100**

PART A

Answer any 5 questions and all questions carry equal marks

5X10=50 marks

1. Explain the criteria for A, B, C & D categorization of running staff? What steps you will take to upgrade Loco Pilots from category 'C' to 'B' ?
2. What are Indicative Accidents? What are the steps you will take to prevent LPs from passing signals at danger?
- 3.(a) What are the main reasons for train parting? What precautions an LP should observe during train parting?

(b) What are the reasons for stalling? What are the precautions to be taken when a train is stalled on a gradient section?
4. What are the salient features of Working Time Table?
5. What steps you will take when (any 3)

(a) Loco explodes a detonator
(b) LP experiences heavy jerk
(c) during thick or dense fog in automatic sections
(d) when a loco fails in a mid-section (GR 6.05)
(e) While backing an empty rake on to platform
6. Write short notes on (any 3)

(a) Ruling gradient
(b) CTR
(c) Learning road
(d) Crew link
(e) Breach of Rest Allowance
7. Explain the procedure and steps involved in conducting a load trial based on fuel consumption.
8. List out the essential equipment of Loco Pilot and personal equipment with Motorman that are to be available which are prescribed as per the latest correction to SR 4.19.

PART B

Answer all questions

I. CHOOSE THE CORRECT ANSWER

10X1=10 marks

1. Gear ratio in WAG5 locomotive is
(a) 15 : 62 (b) 21 : 58 (c) 18 : 64
2. Total HP of WDP 4 locomotive is
(a) 5050 (b) 5000 (c) 3640
3. The authority to proceed to enter into the obstructed block section to an LP in absolute block territory is
(a) T/B 602 (b) T/A 602 (c) T/C 912
4. The authority to proceed given for opening communication on a single line during total interruption of communication is
(a) T/1425 (b) T/D 602 (c) T/B 602
5. The speed of the first train during single line working on a double line section is
(a) 15 kmph (b) 25 kmph (c) Maximum permissible speed
6. The maximum permissible speed is issued by
(a) CRS (b) COM (c) PCE
7. The whistle code for advising the Station Master after stopping at the outermost facing point when the train arrives incomplete is
(a) 0 – 0 (b) – 0 – 0 (c) – – –
8. While attaching a loco on to the passenger train, the shunter has to stop the train at a distance of
(a) not less than 20 m (b) 15 m (c) 5 m
9. The speed of the train with a 'C' class ISMD consignment shall not exceed
(a) 30 kmph (b) 50 kmph (c) 15 kmph
10. QRSA means
(a) Relay for rectifier fault
(b) Relay for motorman
(c) Relay for DJ
(d) Relay for auxiliary circuit

II. Say 'Yes' or 'No'**10X2=20 marks**

1. If the A9 handle position is in full service application, consequent BP reduction is 1 kg/cm^2 .
2. When a Gate stop signal with 'G' marker plate in automatic area is at 'ON', the Loco Pilot shall wait for 5 minutes during night.
3. The speed of a train during night when the headlight of the loco fails on BG is 40 kmph.
4. Joint continuity test has to be conducted at the originating station with Guard.
5. Total number of LAP an employee can accumulate is 300+15 days.
6. Before attaching the loco on formation, the Loco Pilot should ensure that the BP pressure should be $5 \pm 0.1 \text{ kg/cm}^2$.
7. The authority given to Loco Pilot during block failure on a double line is T.1413.
8. After 45 years and upto 55 years, the running staff should attend PME for every two years.
9. Hindi day falls on February 14.
10. The whistle code for raising pantograph is - 0 - .

III. Fill in the blanks**10X2=20 marks**

1. If an IBS is at danger, the LP has to stop for
2. Hindi in devanagari script is declared as official language under section of Indian Constitution.
3. The 3 regions mentioned in official language rules 1976 are
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4. The LP should undertake learning road after a lapse of months.
5. The minimum penalty prescribed by Railway Board for passing signal at danger is
6. Each Loco Inspector will be allotted with No. of LPs and No. of Shunters.
7. The limit of flat tyre for a diesel/electric BG locomotive is mm.
8. The speed of train while passing the rail fracture location when certified by a Section Engineer should not exceed kmph.
9. Bell code for zone of speed restriction is over and to resume normal speed is
10. During failure of loco of an A/B train, after minutes, the train brake gets applied automatically due to self leakage of BP pressure.