

## SOUTHERN RAILWAY

### SELECTION FOR THE POST OF INSTRUCTOR/OPERATING AT ZRTI/TPJ WRITTEN EXAMINATION ON 29.01.2011 (SATURDAY)

Duration : 3 Hours

From 10.00 to 13.00 hrs.

Max. Marks : 100

#### QUESTION PAPER CONSISTS OF TWO PARTS:

**PART – A** : Descriptive Type for Maximum Marks of 60

**PART – B** : Objective Type for Maximum Marks of 40

**Note** : For the Objective Type questions, answers should be written in the Answer Book indicating the Question Number. No answer should be written on the Question Paper itself.

#### PART – A

Answer any ONE of the following questions in detail:

1 x 20 = 20 marks

1. Discuss the salient features of HOER applicable to running staff on IR and give your specific suggestions for improving the utilization of running staff.

OR

2. Computerization of train operations has tremendous potential to be unleashed. Please indicate the salient features of FOIS, COA, CMS, ICMS & PAM and the potential benefits of each one of them in the train operations.

Answer any FOUR questions out of the following carrying equal marks: 4 x 10 = 40 marks

3. Write short notes on the following:

i) TRWS

ii) ACD

iii) Versine

iv) Disaster Management

v) Procedure for taking off Calling on Signal

4. Draw a layout diagram of a station in Double-Line Section and show the details of signals, provision of isolation, length of lines, gradients etc explaining the features of the station.
5. In the context of Indian Railways, discuss the various aspects of Traffic Costing like fixed costs, variable costs, common costs and fully distributed costs and indicate two specific suggestions of yours of freight concessions for marketing the freight traffic on Southern Railway.
6. Please indicate the commodity-wise loading target of Southern Railway for the year 2010-11 and the achievements for the period April to December, 2010 and discuss the prospects for additional freight traffic growth expected to come up from at least two different locations on Southern Railway within the next three months.

7. What do you understand by the term 'Preferential Traffic Schedule' and list out the steps to be taken for improving the average speed of goods trains.
8. Please list out the classification of accidents on Indian Railways and indicate the factors which adversely affect the punctual running of trains.

**PART – B**

**Answer ALL the questions. Each question carries 2 marks:**

*20 x 2 = 40 marks*

1. Target time for turning out MRV at stations provided with double exit siding is \_\_\_\_\_ minutes.
2. If the night patrolman does not turn up within \_\_\_\_\_ minutes of scheduled time, Caution Order is issued.
3. Catch siding protects \_\_\_\_\_.
4. CRS comes under \_\_\_\_\_ Ministry.
5. The life of Fusee is \_\_\_\_\_ years.
6. Anemometers are used to measure \_\_\_\_\_.
7. The Headquarters of the UIC is situated at \_\_\_\_\_.
8. Averted collision between "trains not carrying passengers" and "obstruction" shall be classified under \_\_\_\_\_ Class of accident.
9. Joint Inspection to Track Circuit at stations shall be conducted by Engineering and S&T Officials once in \_\_\_\_\_ months.
10. To pass Automatic Signal at ON, the driver shall wait for (a) \_\_\_\_\_ minutes during day and (b) \_\_\_\_\_ minutes during night.
11. During Temporary single line working on the double line, the speed of the first train shall be \_\_\_\_\_ Kmph.

12. While granting line clear, the adequate distance will be reckoned from \_\_\_\_\_ signal at the station.
13. The driver shall work the train at a speed not exceeding \_\_\_\_\_ Kmph, in case of defective head light of locomotive in a section during night or thick foggy weather in BG.
14. If the main line is not isolated from loop line the speed over facing point shall not exceed \_\_\_\_\_ kmph.
15. CONCOR means \_\_\_\_\_
16. The Authority to proceed for motor trolley in Single Line Token-less section is \_\_\_\_\_
17. The signals can be placed on the right hand side also if required with the sanction of \_\_\_\_\_
18. Slip Siding shall be provided at a station where the gradient is \_\_\_\_\_ falling from the station.
19. On the Indian Railways the 'rack and pinion system of track' exists between the \_\_\_\_\_ and \_\_\_\_\_ Railway Stations of Southern Railway.
20. The VTO should be placed at a distance of not less than \_\_\_\_\_ meters from the centre of the SM's Office.

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