

QUESTION PAPER - II

WRITTEN EXAMINATION FOR SELECTION FOR PROMOTION FROM GROUP 'C'  
TO GROUP 'B' SERVICE TO THE POST OF AEN/NR(GR. B) AGAINST 30% QUOTA  
IN CIVIL ENGINEERING DEPARTMENT, NORTHERN RAILWAY.

DATE OF EXAMINATION:

03.11.2018

Assessment Year : 2017-19

MAXIMUM MARKS:

150

TIME ALLOWED : 03 HRS.

1. There are three sections (A, B, & C) in the question paper. **Answer only two questions from each section.** Answer Total Six questions. Any extra question attempted after six will not be evaluated.
2. All questions carry marks as indicated against each.
3. Candidates having found writing name/leaving any other identification marks in Answer Sheet shall be ignored while evaluation/ disqualified.
4. Answers may be written either in English or in Hindi.
5. In case of any ambiguity in the Hindi version, the English version is to be considered authentic.

SECTION – A

Attempt any two questions:-

Q.1 (a)	Describe in detail, the procedure for imposing a major penalty on a Group 'D' Railway employee, under Discipline & Appeal Rules, for long unauthorized absence. List the various types of Major Penalties under D&AR.	18 marks
(b)	Describe AEN's powers for imposing major penalties.	02 marks
(c)	Describe the opportunities available to such an employee for appeal and review of the penalty imposed on him.	05 marks
Q. 2	Write short notes on any five of the following:- I. Urgency Certificate. II. Minimum Wages Act III. Stock Sheet IV. Surplus Stores V. DS-8 note VI. Completion report VII. Earnest Money	5 x 5 = 25 marks
Q. 3	Write short notes on any five of the following:- I. Monsoon precautions II. Inspection of major bridges III. Lubrication of rail joints IV. Frequency of IOH/POH for Track machines. V. Types of bearings on bridges VI. Difference between 2S, 3S & 4S machines.	5 x 5 = 25 marks

*hnp*

## SECTION – B

Attempt any two questions:-

Q. 4	Write short notes on:- I. Criteria for rail renewal II. Repair for Rail fracture.	12.5 x 2 = 25 marks
Q. 5 (a)	Describe Pre-tamping, during tamping and post tamping operations of CSM machines.	15 marks
(b)	Explain the precautions to be taken/observed during group working of track machines in double line section.	10 marks
Q. 6 (a)	Write short note on Distressed bridges and schedule of inspection by officials.	07 marks
(b)	Write short note on various river training and protection measures adopted on a bridge site.	09 marks
(c)	Write short note on Destressing of track before winter. Also include precautions to be taken, if rails have liner biting beyond 3mm.	09 marks

## SECTION – C

Attempt any two questions:-

Q. 7 (a)	As an Assistant Engineer at a major accident site, what duties as AEN are required to be performed.	15 marks
(b)	As per USFD testing of rails, what are the different classifications of defects, how they are marked and what action is to be taken in each case.	10 marks
Q. 8	Give planning and methodology for construction of subway (LHS) in place of Level Crossing including block working within 5.30 hours with cut and cover method and what precautions to be taken during block working.	25 marks
Q. 9	Design a Water Supply installation for a station to cater for the following requirement:- I. Domestic requirement for 500 sanitised quarter. II. Passengers dealt with each day for 1000 nos. III. Office staff 150 nos. IV. Lawns 2 hectares.	25 marks

*hmf*