

South Eastern Railway.
Electrical Department.

5

(Written Examination)
Selection of AEEs(Group 'B') against 70% vacancies.

Date: 09-01-2005

Maximum Marks-150

Time: 11-00 hrs.

Time Duration: 3 Hrs.

- Note: (a) All questions carry equal marks.
(b) Answer four questions from Section-I and one question from Section-II.
(c) Answers can be given either in English or in Hindi.
(d) Question Paper must be returned with Answer Sheet.

SECTION-I.

- Q.1. a) Write ten important routine checks to be carried out during Annual Maintenance of OHE.
b) What special checks are carried out in the OHE for its proper functioning at the following locations?
(i) Turn outs and cross overs
(ii) Section Insulator Location
(iii) Overlaps
(iv) Isolator locations
(v) On Regulating Equipments.
- Q.2. Name protective relays provided for protection of various equipments in the Traction Substations. Describe functioning of Integrated Feeder Protection Relay System.
- Q.3. a) What are various registers/records maintained in OHE depot ?
b) What items should be checked in OHE in case of a pantograph entanglement to arrive at correct cause ?
- Q.4. What are the common defects experienced in AC coaches of conventional as well as RMPU type ? What are the reliability measures being taken by S. E. Railway in respect of these coaches ?
- Q.5. a) What are the measures adopted for fire protection on Main Line coaches against electrical defects/short circuits ?
b) How is the voltage regulation achieved in TL coaches.

- Q.6. Explain the functioning of important equipments of a Air conditioning system in a service building. Draw the schematic to explain the working of the system.
- Q.7. a) Draw the power circuit diagram of a Motor coach.
b) What are the type of failures occurring on EMU Traction Motors.
- Q.8. What are the various schedules being undertaken for EMU stock? Describe one such schedule in detail listing the various activities involved.
- Q.9. Explain the brake system of Dual Brake locomotive. Describe functioning of 3 important valves.
- Q.10. a) What are the common causes of TAO-659 traction motor failures. What steps have been taken to improve the reliability?
b) What attention is paid to Traction Motors during schedule maintenance of locomotives under various schedules?
- Q.11. Write short notes on any three of the following:
a) Driving Techniques to avoid Train Partings.
b) Trouble shooting for total loss of tractive effort.
c) Arno converter of Electric Locomotives.
d) Undergear checks on Electric locomotives
e) Dynamic Braking on electric locomotives.

SECTION-II.

- Q.1. a) Describe briefly the various revenue demands of grant.
- b) What are the various demands being operated by your establishment.
- Q.2. Write short notes on any three-
- Next below Rule.
 - Study leave.
 - PREM Meeting.
 - DRUCC Meeting.
 - Voluntary Retirement.
 - Trade Test for Artisan Staff.
- Q.3. Write short notes on any three -
- Role of Planning Commission.
 - India's GDP Growth.
 - President's rule under Article 356
 - India's Presidential Election System.
 - Salient features of S. E. Railway.
 - Five terms related with capital Markets.
- Q.4 (क) राजभाषा अधिनियम की धारा 3 (3) के विषय में संक्षिप्त टिप्पणी लिखें एवं इनसे संबंधित पाँच मुख्य दस्तावेजों के नाम लिखें ?
- (ख) हिन्दी में अनुवाद करें ?
- F A & C A O
 - Head of the department
 - C E D E
 - Sanctioned
 - Registration