

**SYLLABUS FOR THE SELECTION OF ASSISTANT LOCO PILOTS FROM  
ARTISAN & KHALASI**

**A.General Knowledge**

- 1.Name of Political leader of India.
- 2.Name of the historical monuments of India.
- 3.Naming of the important cities along, the bank of important rivers in India.
- 4.Naming of capitals of Indian states
- 5.Name the inventors of important inventions.
- 6.Name the important dates of historical events.
- 7.Naming of instruments used in measurement of electricity.
- 8.Abbreviations of names of the country.
- 9.Name the currency used in South East Asia
- 10.Naming of religious books of important religious communities.
- 11 Naming of chief ministers of state.
- 12.Naming the zones in Railways.

**B.Mathematics**

- 1.Finding the square root and cube root of the given number.
- 2.Finding the LCM &HCF of given group of numbers.
- 3.Finding the % of a given number.
- 4.Representing a given fraction in to a decimal form.
- 5.Division of fraction by another fraction.
- 6.Denoting the angle between clock needles at different time.
- 7.Fill in the blanks in a given recurring series of number
- 8.Calculating the area of a given rectangle, square & a circle.
- 9.Determining the average from the given numbers
- 10.Solution of a problem where the product of two numbers and their sum are given.
- 11.Calculating speed when speedometer defective with the help of distance travelled.
- 12.Speed, time, distance, calculation.

**C.Science & Maintenance practice**

- 1.Definitions of various electrical laws.
- 2.Naming the nits of parameters related to electricity.
- 3.Instruments used in measurements of electricity.
- 4.Boilling g points of different liquids.
- 5.Naming of various metals whether conductor or insulator.
- 6.Descriptions of machinery used for cration of vacuum and pressure.
- 7.Naming of machines used for various operations in machines shop.
- 9.Naming of magnetic and non-magnetic materials.
- 10.Naming of various industrial gases.
- 11.Velocity.
- 12.friction /Brake application /braking effect

**D. Answer in Brief**

- 1.Safety equipments on a Diesel locomotive.
- 2.Maintenance schedule of rolling stock
- 3.Important tools used in maintenance work.
- 4.Pass,Leave, DAR Rules.
- 5.Writing of Short notes on various components of Diesel locomotives / Coaching stock /freight stock.
6. Question related to air brake and vacuum brake.
- 7.Precaution to be taken during different seasons for safe running of trains.
- 8.Overhauling procedure for the equipments used in depots, sheds workshops.
- 9.Functions of the equipment used in braking system.
- 10.Lubricants used on locomotives/coaching/freight stock.
- 11 Types of heat engines.
- 12.Precaution to be taken to prevent fire.