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Time: Three Hours]

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[Maximum Marks: 100

Note: Attempt Five questions in all, selecting at least one question from each Unit.

Unit I

Describe the following with sketches:

- Various types of Rail Sections and requirements of (a) 10 an ideal Rail Section.
- Coning of Wheels and its utility. (b)
- Describe Wooden sleepers. Discuss their advantages 2. (a) and disadvantages. What do you understand by 10 Sleeper Density?
 - Explain the various types of Fish Plates and Spikes, **(b)** used on Indian Railways with sketches. 10

Describe the various types of switches used on 3. 10 Railways with sketches.

Differentiate between a Turn Table and a Triangle.

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Classify the various signals as per their function. 4. (a) 10 Discuss briefly.

List the various methods of controlling movement 10 of trains. Explain Absolute Block System.

Unit.III

Explain cant deficiency, negative super-elevation and (a) maximum permissible speed on curves.

Define: Trace capacity and discuss the measures (b) 10 for increasing the same.

Give the functional treatment of a Railway Station and with neat sketches, explain:

A way side station on a double line. (a)

A Terminal Station. (b)

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Unit IV

 Discuss the various factors, which should be kept in mind, while selecting the site of an Airport.

- 8. Describe the following:
 - (a) Various Runway Patterns

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(b) Basic Runway length and the various corrections which are made to Basic Runway length to arrive at the actual Runway length at a site.

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