

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 What is Location Survey? How it is done?
- Q.4 Why uniformity of Gauge in a country is Desired Discuss?
- Q.5 Explain Boat Bridges with the help of sketches?
- Q.6 Discuss various factors that you will consider in the selection of site for a bridge on a major river/
- Q.7 Draw the neat sketches showing the details of construction of Tunnels in soft rock by needle beam method?

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5th Sem. / Civil, Brich Tech. Constr. Mgmt.
Subject : Railways, Bridges and Tunnels

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Tube Railways.
b) Narrow Gauge.
c) Hogged Rails.
d) Chairs.
e) CST - 9 sleepers.
f) Plate laying.
g) Sleepers.
h) Side slopes.
i) Super structure.
j) Permanent Bridge.

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- k) Semi through Bridge.
- l) Submersible Bridge.
- m) Cofferdam.
- n) Water Way.
- o) Clearance.
- p) Wing Walls.
- q) Mucking.
- r) Lining of tunnels.

SECTION-B

Note: Short answer type questions. Attempt any ten parts
10x4=40

- Q.2
- i) What is Meter Gauge? Discuss its suitability?
 - ii) What is creep in rails? What are effects of creep in rails?
 - iii) Write short note on coming of wheels?
 - iv) Write down the functions of fish plate?

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- v) What are Merits of wooden sleepers?
- vi) What are requirements of Good Ballast?
- vii) Why Track Maintenance is Necessary?
- viii) Name the component parts of a Bridge? and Give the function of each?
- ix) Describe open type caissons foundation with sketch?
- x) State factors that Effect the Depth of Foundation?
- xi) Discuss different types of solid piers?
- xii) Write down the functions of Bridge Bearings?
- xiii) Discuss in Brief what do you mean by Routine Maintenance of Bridges?
- xiv) Describe the procedure of ventilation by combination of Blowing and Exhausting?
- xv) What methods will you adopt in draining the water from Tunnels?

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