

College
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Important Questions

Railway, Bridges And Tunnels

Part-I Railways:-

Q:1 write down the full forms of:-

- | | |
|---------|---------|
| 1.) IR | 5.) WR |
| 2.) NR | 6.) ER |
| 3.) CR | 7.) SER |
| 4.) NFR | 8.) NER |

Q:2. what do you mean by rail survey?

Q:3. what are the factors which affects the rail route?

Q:4. Name the elements of alignments?

Q:5. Types of rail survey?

Q:6. what do you mean by rail gauge?
and also type of gauges?

Q:7. what do you mean by permanent way? what are the requirements for ideal permanent way? also define components?

Q:8. what is Rails and types of Rails with diagram?

Q:9. Difference Between Double headed Rails and Flat footed Rails?

Q:10 Define creep of rails?

Q:11 what do you meant by Fixtures and fastenings?

Q:12 write down the functions of rail fastenings?

Q:13. what do you meant by fish plates?

Q:14 what are the advantages of bearing plates?

Q:15. what is ballast? what are the requirements of good ballast?

Q:16. write down various ballasts used in rail track?

Q:17. what are the functions of ballast?

Q:18. Define bearing plates?

Q:19 Define Rail Joints and types of rail joints?

Q:20 what is sleeper? what are the requirements of an ideal material for sleepers?

Q:21 what are the functions of sleepers? and also types of sleepers?

Q:22 Define points and crossings? Necessity of points & crossings?

Q:23 Define Turn-out?

Q:24 Define Track Maintenance, Necessity, classification and also advantages?

Part-IInd

* — * — Bridges

Q:1 what is Bridge and bridge engineering?

Q:2 Component parts of Bridge with Structure?

Q:3 Difference Between Bridge and Culverts?

Q:4 Define Sub Structure and Super-structure with diagram?

Q.5 what are straight and skew bridge

Q.6. what are submersible and non submersible bridges?

Q.7 Define scour, afflux, runoff?

Q.8. what is bridge length and width of carriage way?

Q.9 Define IRC classification?

Q.10 what do you meant by bridge alignment?

Q.11 what is soil profile?

Q.12 what do you meant by bridge foundations.

Q.13 Define pile foundation, well foundations?

Q.14. what is grip length?

Q.15. what do you meant by coffer dam?

Q.16 Difference b/w earthen and rock fill cofferdams?

Q:17. Define terms? -

- a) Define piers, Abutments & wing walls.
- b) Bridge Bearings, types & Flow diagram also?

Q:18 what do you meant by maintenance of bridges?

Q:19 Explain types of Maintenance?

Q:20 Difference b/w ROB & RUB?

Part-3rd

* - * — Tunnels
* - * —

Q:1 Definition and Necessity of tunnels?

Q:2. Advantages of tunnels and require-
ment of tunnels?

Q:3. what do you meant by Ventilation of tunnels?

Q:4. what do you meant by drainage of tunnels?

Q:5. what are the functions of lighting system in tunnels?

Q:-6 Explain the various methods of drainage in tunnels?