

- Q.29 Write a short note on vibratory roller.
- Q.30 Describe the requirements of a aggregate in WBM construction.
- Q.31 Write a short note on maintenance of roads.
- Q.32 Explain the role of fog seal in road construction.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

- Q.33 Describe the detailed procedure of construction of water bound macadam road.
- Q.34 Explain in detail about the need and working of hot mix plant.
- Q.35 What is the need of Pavement Sub Grade Compaction? Describe the quality control tests or check for the same.
- Q.36 Discuss the detailed procedure of Sand Bituminous Premix patching along with applications

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6th Sem. / Civil Engg.

Subject : Highway Construction and Maintenance

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Objective type questions. All questions are compulsory (10x1=10)

- Q.1 What is sub grade?
- Q.2 Write full form of MORTH
- Q.3 What is the effect of penetration on CBR?
- Q.4 What is prime coat?
- Q.5 Write the purpose of binder in construction.
- Q.6 What is the need of curing?
- Q.7 What is fog seat?
- Q.8 Write the function of paver.
- Q.9 Write the full form of compaction equipment PTR.

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Q.10 What is the prime function of Indian Roads Congress?.

SECTION-B

Note:Very short answer type questions. Attempt any ten questions out of twelve questions.
(10x2=20)

Q.11 What is the function of soil as highway sub grade?

Q.12 What is soil excavation?

Q.13 What GSB stands for in construction?

Q.14 What is Asphalt.

Q.15 Why tack coat is provided.

Q.16 Write the components of bituminous concrete.

Q.17 Mention any two advantages of Mastic Asphalt.

Q.18 Write the composition of seal coat.

Q.19 Mention the applications of WMM.

Q.20 What is the purpose of hot mix plant?

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Q.21 How Bituminous concrete different from semi dense Bituminous concrete.

Q.22 Write the application of liquid seal.

SECTION-C

Note:Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

Q.23 Write a short note on subgrade preparation.

Q.24 Write quality controlled operations involved in bituminous concrete construction.

Q.25 What are the steps allowed in Macadam construction?

Q.26 Write the difference between Bituminous and concrete roads.

Q.27 Describe the function of prime coat, tack coat and seal coat in bituminous construction?

Q.28 Write a brief note on surface dressing in road construction.

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