Total No. of Questions : 8]

[Total No. of Printed Pages : 3

Roll No

CE-404-CBGS

B.Tech., IV Semester

Examination, June 2020

Choice Based Grading System (CBGS) Transportation Engineering - I

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions from given eight questions.

ii) All questions carry equal marks.

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iii)In case of any doubt or dispute the English version question should be treated as final.

1. a) Define: Hauling capacity and tractive effort.

b) List out various materials used as a ballast. Also give requirement of Good ballast.

2. a) What types of sleepers used in a railway track? Also explain suitability of sleepers according to global conditions.

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PTO

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- b) Define : Fish plates, bearing plates, check rails and guard rails.
- 3. a) What do you understand by Super elevation? Also explain Cant deficiency.
 - b) Explain principles of signaling and inter locking.
- 4. a) List out various types of Foundations. Also explain suitable materials used in bridges.
 - b) Write a short note on Bridge failure.
- 5. a) Describe pressure relief phenomenon.
 - b) What is the role of types of soils for construction of Tunnel? Explain clearly.
- 6. Write a detailed note on any two important tunnel of India or abroad.

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Contd...

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- 7. Explain the following terms :
 - Mucking operation a)
 - Strengthening of bridge b)
 - Abutment and piers c)
 - Marshalling yard d)
- 8. Write short note on any four of the following : ha.on
 - Wear and tear of rails a)
 - Principle of Transportation b)
 - Affix c)
 - Coffer-Dam d)
- ****** **Pilot-shafts**

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