Printed Pages:3 NCE - 044

(Following Paper ID and Roll No. to be filled in your Answer Books) Roll No.

B.TECH

Regular Theory Examination (Odd Sem -VII), 2016 - 17 TUNNEL ENGINEERING

Time: 3 Hours

Max. Marks: 100

Note: Attempt all the Questions.

SECTION-I

a) What is tunnel? Why we are use?

Attempt all parts:

(10×2=20)

What do you know by open cut?

Write short note shaft?

What are size and shape of tunnel? What are hauling of muck?

Define timbering in shaft?

Define the drilling of tunnel?

Give some uses of tunnel?

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What is the T.B.M?

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Explain the bore hole?

Attempt any five parts: SECTION-II

Sketch the different types of drilling pattern?

 $(5 \times 10 = 50)$

Name the different types of drilling equipment used for boring holes in rock?

9

Explain the dust control system used in construction

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Compare machine mucking with hand mucking

Explain the drill bits and sketches?

8 Ð Describe the work of jack bammer with neat What is method of timbering in shaft?

Ē Explain the drilling and blasting in tunnel?

SECTION-III

Attempt any two parts:

(2×15=30)

What is the geological investigation in tunnel? Describe with full detail?

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with neat sketch of shape of tunnel generally use. What do you mean by the shape and size of tunnel explain

its construction? Why ventilation system is necessary for tunnel during

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