

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

Paper ID : 2289940

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

1. Attempt all parts: (10×2=20)

- What is tunnel? Why we are use?
- What do you know by open cut?
- Write short note shaft?
- What are hauling of muck?
- What are size and shape of tunnel?
- Define timbering in shaft?
- Define the drilling of tunnel?
- Give some uses of tunnel?

- What is the T.B.M?
- Explain the bore hole?

SECTION - II

2. Attempt any five parts: (5×10=50)

- Sketch the different types of drilling pattern?
- Name the different types of drilling equipment used for boring holes in rock?
- Explain the drill bits and sketches?
- Compare machine mucking with hand mucking.
- Explain the dust control system used in construction of tunnel?
- What is method of timbering in shaft?
- Describe the work of jack bammer with neat sketch?
- 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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4. What do you mean by the shape and size of tunnel explain with neat sketch of shape of tunnel generally use.
 5. Why ventilation system is necessary for tunnel during its construction?
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