Paper / Subject Code: 89267 / Construcation Equipment & Techniques (DLOC)

Max. Marks: 80

TE (Civil) Sem VI | R-19 |

Time: 3-hour

N.B.

- 1. Question No. 1 is compulsory
- 2. Attempt any 3 Questions from the remaining.
- 3. All questions carry equal marks.
- 4. Figures in right indicate the maximum marks for those questions.
- 5. Assume suitable data if required and highlight the same.
- Q.1 Attempt any four
 - a What are the different factors for the selection of construction equipment?
 - b Write a note on Light Detection and Ranging (Lidar) Technique for Railways/Highways alignments.
 - Distinguish between conventional and modern formwork
 - d What is ground penetrating radar (GPR)? What is the use of the GPR system?
 - e Write a detailed note on the desalination process.
 - Write briefly about the equipment required in the construction and operation of the seaport.

a What is a windmill? Explain details about the installation and 10 operation of windmills.

- b What do you mean by incremental launching method? explain it with a 10 suitable sketch.
- a Write a detailed note on the limitations of Mivan, Doka and Modular 10 shuttering.

DEnlist different methods of tunnelling in soft rock. State the various10Stages in the construction of tunnels along with the equipment required.

- Write a detailed note on various earthmoving, hoisting and hauling 10 equipment. Explain their suitability and factors affecting their performance
- Write a detailed note on equipment and techniques involved in setting 10 up an atomic power station.
- Draw neat sketches of the "Taw Crusher" and "Gyratory Crusher" and 10 explain their work.

Write short notes a) Equipment Suitability b) Cycle Time c) Balancing 10 d) Ownership Cost

- Write a detailed note construction of the metro rail. Explain the process 10 involved in the construction of metro railways.
- Describe in detail with a diagram about slip and jump formwork. 10

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