

Code No: **R1642012**

**R16**

**Set No. 1**

**IV B.Tech II Semester Advanced Supplementary Examinations, Aug/Sep - 2022**  
**CONSTRUCTION TECHNOLOGY AND MANAGEMENT**  
(Civil Engineering)

**Time: 3 hours**

**Max. Marks: 70**

*Question paper consists of Part-A and Part-B*  
*Answer ALL sub questions from Part-A*  
*Answer any FOUR questions from Part-B*  
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**PART-A (14 Marks)**

1. a) Define Bar chart [2]  
b) What is B/c ratio? [3]  
c) What is the use of excavators? [3]  
d) What is clamshell? [2]  
e) What is transit miner? [2]  
f) Write down safety control measures [2]

**PART-B (4x14 = 56 Marks)**

2. a) Describe various phases of project management? [7]  
b) Explain in brief the differences between PERT and CPM [7]
3. a) Define cost analysis. Explain each in-detail. [7]  
b) Discuss i) Crashing for optimum cost [7]  
ii) Crashing for optimum resource allocation.
4. Explain in-detail classification of construction equipment [14]
5. a) What is a tractor? For what purposes it is used? [7]  
b) What factors influence the selection of a tractor? Explain in brief. [7]
6. a) Write a note on concrete batching equipment? [7]  
b) Compare the tilting and non-tilting type concrete mixers [7]
7. a) Explain the procedure for laying cement concrete in cold and hot weather [7]  
b) Explain in-detail about slipform Technique. [7]

