



Construction Methods & Equipment Management (1060)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
 2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
 3. Students should note, no supplement will be provided.
 4. Answer **any five** questions.
 5. Draw neat sketches wherever necessary.
 6. Assume suitable data wherever necessary.
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1. a) Explain with sketches - ladder type Trenching Machines. 10
b) Explain in detail about five major factors affecting output of Power Shovel. 10
 2. a) Explain in detail about with neat sketch Clam Shell. 10
b) Explain mobile crane with neat sketch. 10
 3. a) Explain with sketch "Tremie Method of underwater concreting". 10
b) Explain single stage well point system with sketch. 10
 4. a) Explain Double Acting Pile Hammer. 10
b) Explain with neat sketch - Tunnel Boring Machine. 10
 5. a) List out methods of rock drilling & explain any one in detail. 10
b) Write in detail about mobile compact concrete plant. 10
 6. a) Explain in detail Rotary Drill & Percussion Drill. 10
b) Mention various Hauling equipments with their suitable use. 10

7. a) Explain Economic life of equipment & Equipment Replacement Decision. **10**
b) Explain in detail Sheep footed Rollers with sketch. **10**
8. a) Write short notes **any four**. **20**
- i) Types of Dozer blades & their suitable uses.
 - ii) Advantages of Hydraulic Excavators.
 - iii) Rolling resistance & grade resistance.
 - iv) Safety in crane operation.
 - v) Belt conveyer.
 - vi) Concrete vibrators.
