

Seat
No.

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मुद्रा- 014

Construction Methods & Equipment Management (1060)

P. Pages : 1

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet 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.

1. a) Explain with Sketch-Wheel type Trenching Machines. 10
b) Explain with sketch-vertical slip forms. 10
2. a) Explain Graders with its working. 10
b) Explain Hoe with its components & operation. 10
3. a) Write about side dump Trucks & rear dump trucks with their suitable use. 10
b) state various types of Rollers & explain any one in detail. 10
4. a) Explain Static Tower crane with neat sketch. 10
b) State types of pile driving hammers & explain any one in detail. 10
5. a) Explain double stage well point system with sketch. 10
b) Explain RMC plant with its layout. 10
6. a) Explain in detail Pneumatic Concrete Placers. 10
b) What are equipment ownings costs & equipment running costs ? 10
7. a) Compare the performance of various excavating equipments. 10
b) Explain need for mechanisation of construction industry. 10
8. Write short notes **any four**. 20
 - i) Cofferdams.
 - ii) Downtime cost.
 - iii) Wagon drill.
 - iv) Equipment management checklist.
 - v) Work cycle output.
 - vi) Screw conveyor.
