

BACHELOR OF CONSTRUCTION ENGG. EXAMINATION, 2018

(3rd, Year, 1st Semester)

Construction Plants and Equipments**Time : Three hours****Full Marks : 100***Answer any five questions.*

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| Q1. | What is slipform? Explain the slipform method with neat sketch. Mention two cases where we use slipform technique. | 20 |
| Q2. | “Gin Pole” is a simple mechanism to lift load. Draw a sketch of Gin Pole and explain working mechanism of showing its different components. | 20 |
| Q3. | Draw a sketch of hydraulically operated backhoe excavator. Show its different parts. For different types of excavation which part of excavator generally we change or replace. What are the advantages of crawler mounted excavator. | 20 |
| Q4.a. | Why dragline is a very special type equipment regarding excavation on existing river / canal bed. Explain with sketch. | 10 |
| Q4.b. | Draw a sketch of Derrick showing different parts of this machine. Discuss about working principle of Derrick. | 10 |
| Q5.a. | What is Transit Mixer? How a Transit Mixer unloads concrete at site, explain with sketch. | 10 |
| Q5.b. | Draw a sketch of two cylinder concrete pump and discuss its working principle. | 10 |
| Q6. | Explain working principle of fixed based town crane with neat sketch showing different parts of it. | 20 |