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Register Number:

7197

Name of the Candidate:

**DIPLOMA EXAMINATION, 2010**  
**(CONSTRUCTION MANAGEMENT)**  
**(PAPER-III)**

**530. CONSTRUCTION EQUIPMENT**

Dec]

Maximum : 100 Marks

[Time : 3 Hours

*Answer ALL questions*

*(5×20=100)*

**UNIT-I**

1. a) Explain the various attachments fitted in loader. (10)  
b) Write short notes on.  
(i) Tractor (5)  
(ii) Dozers (5)
- (OR)
2. a) Compare Rubber tired rollers with steel wheel Rollers. (10)  
b) Give in detail the operation of a motor grader with their attachments. (10)

**UNIT-II**

3. a) Elaborate on the construction and operation of mobile cranes with neat sketch. (10)  
b) Write notes on  
i) Dredging Equipment (5)  
ii) Trenching Equipment (5)
- (OR)
4. a) Describe the principle and working of Tunneling equipment. (10)  
b) Write notes on:  
i) Power excavators (5)  
ii) Cranes (5)

**UNIT-III**

5. a) Explain in detail pile driving equipment. (10)  
b) Write briefly about the pile driving hammer and its types and explain any one with a neat sketch. (10)
- (OR)
6. a) Define Caisson and Explain Caisson drilling equipment. (10)  
b) Write the comparison between climbing cranes and tower cranes. (10)

**UNIT-IV**

7. a) Explain Vaccum dewatering system. (10)  
b) Write notes on:  
i) Fork lift (5)  
ii) Wagons (5)

(OR)

8. Explain the various types of pumps. Use sketches (if available). (20)

**UNIT-V**

9. Describe crusher with its types and explain the factors affecting the output of the crusher. (20)

(OR)

10. a) Write in detail about various concrete mixer machines normally employed for making concrete. (10)

- b) Describe about concrete pumping equipment. (10)

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