Seat No: \_\_\_\_\_\_ Enrollment No: \_\_\_\_\_

## PARUL UNIVERSITY

## **FACULTY OF ENGINEERING & TECHNOLOGY**

**B.Tech. Summer 2021-22 Examination** 

Semester:8 Date: 01/04/2022

_	ect Code: 203104453 Time: 10.30 am to 1.00 pm ect Name: Advanced Construction Technology Total Marks: 60	
1. Al 2. Fi 3. M	ructions: Il questions are compulsory. gures to the right indicate full marks. ake suitable assumptions wherever necessary. art new question on new page.	
Q.1	Objective Type Questions -	(15)
-	1. The trucks with automatic unloading device are called	` '
	(A) Dumpers (B) Conveyer (C) Trailers (D) Dump trucks	
	2type of equipment is developed for both intermittent as well as continuous flow type	
	(A) Advanced (B) Combined (C) Mixed (D) Flow	
	3. which of the following is a temporary structure	
	(A) Sand island (B) Cofferdam (C) Jetty (D) Caisson	
	4are the most commonly used Equipments for transportation	
	(A) Bulldozer (B) Rollers (C) Trucks (D) Dump trucks	
	5. A caisson is open at top and closed at bottom.	
	(A) Pneumatic caissons (B) Box caisson (C) Cylinder (D) none of the above	
	6. Box caisson is used up to depthm.	
	7. Which temperature caisson sickness can be avoided	
	8. The pneumatic caissons are adopted only if the head of water is more than m	
	9is an oldest type of machine which remove Earth.	
	10. Sometimes a caissons sinks more on one side than other it is called	
	11 method is used when soils of finer particle size.	
	12is self-propelled machine which is used mainly to exert powerful tractive force for pulling	
	other machine.	
	13can be used on wet soil and in all condition of weather.	
	14 Equipments are used to decrease the porosity of earth and increase the density of earth	
	15. which cofferdam is suitable at a place where velocity of flow is slow and depth of water is 1.5	
	m	
0.1	A normal that fall arrive a greations (Attached any three)	(15)
<b>Q.</b> 2	Answer the following questions. (Attempt any three)	<b>(15)</b>
	A) Give Difference between Caisson and Cofferdam.	
	B) Explain Basic parts of Belt conveyor system.	
	C) Give site selection Criteria for constructing diaphragm Wall	
	<b>D</b> )Give Importance of Construction Equipments.	
Q.3	A) Explain Electro osmosis for dewatering with neat figure.	<b>(07)</b>
	<b>B</b> ) Enlist the types of Caissons and Explain Box caisson with figure.	(08)
	OR	
	<b>B</b> ) Enlist the types of cofferdams and Explain Cellular Cofferdam with neat sketch.	(08)
Q.4	A) Explain Drawbar pull and Rim pull	(07)
-	OR	-
	A) Explain Blade adjustments.	<b>(07)</b>

**B**) Factors affecting while selection of construction Equipments.

(08)