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Under IT it a cross is

Civil Engineering Department Construction Material Lab (ENCE 215) Student Name: Said Janjourn & Vicat's instrument Student ID: 1152783 Q:1 Fill in the blanks (20 Marks) |5/20 1- Workability defined as the ease with which we can deal with concrete े वेश्मा कु कियी बीकर using rod with dimension of 600length, anddiameter. 3- There are three shape of slump: Railwe & shaped and gwe shaped 4- Compacting factor can be defined as partially compacted coarse aggregates put on vibrating machine for minutes. 6- In sieve analysis test the fine aggregate washed on sieve #. 200 balls and the intac material is obtained by sieving the sample on the seive #....!?....... 9- Apparent specific gravity defined as MSS of the aggregate with Proper months worlds

10-In sieve analysis test the fine aggregates washed on sieve # . 200, also it must be dried in

1

Q2: complete the table below for the sieved 20 mm aggregate and find the following: (20 Marks)

1-Percentage error and specify whether it's acceptable or not

2-Finesse modules

Mass before sieving = 1381.2 gm



Sieve size (mm)	Individual mass retained (gm)	Corrected mass retained	Individual percent retained	Cumulative percent retained	Cumulative percent passing
25	2.3	2.30 4	0.1677.	0.1677	99.833
19	52.2	52.291	3.7867.	3.9535.	96.0474.
12.5	1143.6	1145.587	82.941%	86 89 47.	13.1064.
9.5	150.0	150.261	10.8797.	97.4737.	2.724 4.
6.3	16.5	16.529	1.197%	98.970%	1.0307.
4.75	9.5	9.517	0.6897	99.659%	0.344.
Pan	4.7	4.708	0.341%	100%.	04.

Q3: For a sample of coarse aggregate the following data is collected (10 Marks)

Displaced aggregate weight (gm)	230 gm
Bulk Specific gravity on dry basis	2.362
Specific gravity on saturated surface dry biases	2.474

1-Find absorption ratio for this aggregate sample

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2.
$$u_1u_2 = \frac{B}{B_1 - 230}$$

2. $u_1u_2 = \frac{B}{B_2 - 230} = \frac{A}{156}$

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2-Find apparent specific gravity.