Roll No. ....

## 320633(20)

## B. E. (Sixth Semester) Examination, 2020

(Old Scheme)

(Civil Engg.)

## ADVANCED CONCRETE TECHNOLOGY

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: All questions are compulsory with internal choices of two among (b), (c), (d) parts. IS-10262:2009 and IS-456:2000 is allowed.

## Unit-I

1. (a) List out the name and abbreviation of Bogue's compounds.

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	(c)	Explain the step by step procedure of concrete
		mix design by latest IS code method for any
		resumed grade of concrete.
	(d)	What are the sampling and acceptance criteria of
		concrete?
		Unit-IV
4.	(a)	What are the ingredients of fly ash concrete?
	(b)	Explain about polymer concrete.
	(c)	Explain about fiber reinforced concrete.
	(d)	Explain about light weight concrete.
		Unit-V
5.	(a)	Write down the various stages of manufacture of
		concrete.
	(b)	Explain in brief about the various method adopted
		for transportation of concrete.

(c) Explain about underwater concreting by Tremie

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method.

7

7

PTO

	(b)	Write short notes on Portland pozzolana cement.	7
	(c)	Write short notes on hydration of cement and structure of hydrated cement.	<sub>7,1</sub> 7
	(d)	Enumerate the test for determination of flakiness index of the aggregate with neat sketch.	7
		Unit-II	
2.	(a)	Draw a representative diagram of true, shear and collapse slumps.	2
	(b)	What are the factors affecting workability of the concrete.	7
	(c)	Write short notes on segregation and bleeding.	7
	(d)	Write short note on shrinkage of the concrete.	7
		Unit-III	
3.	(a)	What do you understand by standard deviation of test results.	2
		Evaluin shout Cohmidt's robound hommer for non	
	(b)	Explain about Schmidt's rebound hammer for non destructive testing of concrete.	7

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[2]

(d) Explain in brief about the curing methods.	
documental a soplar control	
Kellinsk	
In encode to minimum to secure of manufactories of contractors	
Explain direct and server concepting by Fermin	

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