Roll No.: ....

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## B. E. (Sixth Semester) Examination, 2020 APR-MAY 2022 (New Scheme)

(Civil Engg, Branch)

## **CONCRETE TECHNOLOGY**

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) of each question is compulsory carring 2 marks. Attempt any two parts from (b), (c) and (d) of each question carring 7 marks.

## Unit-I

1. (a) Write advantages of concrete.

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	(b) What is bogue's compound? Explain in details how		(d) Give short notes on:
	each one of the compounds influence the strength		(i) Durability of concrete
	and setting properties of cement.	7	(ii) Permeability of concrete
	(c) What is Fineness modulus of aggregate? How it can be determined in lab?	7	Unit-IV
	(d) Explain Alkali aggregate reaction.	7	4. (a) As per IS: 456-2000, what is the minimum grade of concrete required for R.C.C. work.
	Unit-II		(b) Difference between preliminary and trial mixer.
2.	(a) Define workability.	2	(c) Explain Indian standard recommended method of
	(b) Explain the water reducer admixture with its mechanism.	7	concrete mix design.  (d) What are the factors to be considered in
	(c) Discuss by two tests for quality of concrete in fresh		proportioning of concrete mix design.
	state.	7	Unit-V
	(d) Classify admixture. Also write their functions.	7	5. (a) What is ready mixed concrete?
	Unit-III		(b) What is cold weathering concrete. Describe various
3.	(a) What is creep?	2	effects of cold weathering on concrete.
	(b) Write a brief note on gel space ratio.	7	(c) Give a brief note on super plasticizer concrete.
	(c) What factors promote shrinkage? What precautions		(d) How high performance concrete is prepared?
	will you take to reduce it.	7	Discuss properties and factors affecting it.
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