Ξ
()
a)
a)
H
$\vdash$
$\overline{}$
$\overline{}$
¥

Printed Page 1 of 1 Sub Code: RCE052

Paper Id: 910200 Roll No:

weight concrete.

Attempt any *one* part of the following:

affecting the properties of FRC.

7.

(b)

B.TECH. (SEM V) THEORY EXAMINATION 2019-20

CONCRETE TECHNOLOGY

Time: 3 Hours

Total Marks: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

## **SECTION A**

	SECTION A	
Atter	npt all questions in brief.	$2 \times 7 = 14$
a.	Write wet process of cement.	
b.	What are supplementary cementitous materials?	
c.	Define creep of concrete?	
d.	Write short note on cellular concrete.	
e.	What is durability of concrete?	
f.	What are the statical methods of mix design?	
g.	Define mix concrete.	
	SECTION B	
Atter	npt any three of the following:	$7 \times 3 = 21$
a.	Write down the names of important compounds of cement a influence of each on the properties of cement.	nd explain the
b.	Differentiate between the controlled concrete and ordinary con-	crete.
c.	Write the factors to be considered for a mix design.	
d.	Why it is necessary to add gypsum in the manufacturing of cerr	ent?
e.	Write the basic principle of Ready mix concrete placement met	hods.
	SECTION C	
Attei	npt any <i>one</i> part of the following:	$7 \times 1 = 7$
(a)	Classify the types of cement and explain Air entraining cement	
(b)	Describe the sieve analysis to determine the fineness in	modulus of the
	aggregates.	
	npt any one part of the following:	$7 \times 1 = 7$
(a)	Write the advantages of addition of pozzolana as admixtures.	
(b)	Describe characteristic of metakaoline on concrete properties.	
<u>Atte</u>	npt any <i>one</i> part of the following:	$7 \times 1 = 7$
(a)	What data required for mix proportioning and explain target me	
(b)	What are the role of water in concrete? Ex[lain what are aggregates?	the sources of
A tto	nnt any and nort of the following:	7 x 1 = 7
	npt any <i>one</i> part of the following:  Describe in detail Vee-Bee consistometer test to determine	
(a)	concrete.	
(b)	Define light weight concrete and explain in detail the classi	fication of light

What do you mean by Fiber Reinforced Concrete and also explain factors

Describe recycled aggregate concrete status in India.

 $7 \times 1 = 7$