SECTION - C

- 6. What lests are necessary to check the adoptability of a particular mix proportion for field use? Also explain how will you account for the moisture present in sand while mix proportioning.
- Explain the principles of concrete mix design. What
 are the various factors governing the selection of mix
 proportion according to Indian standard.

SECTION - D

- 8. How piles are driven into the ground? What equipment and machines are used for this operation? Also write down the advantages of using construction equipment over the conventional manual method of construction.
- What do you understand by the term heavy construction? Also explain the precautions take care during the construction of bridges in detail.

Roll No.

24199

B. Tech. 4th Semester (Civil) Examination – May, 2017

CONSTRUCTION & CONCRETE TECHNOLOGY

Paper: CE-210-F

Time: Three Hours]

[Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Question No. 1 is compulsory. Students have to attempt five questions in total. Select one question from each Section. Assume any data if missing.

- (a) Explain how development of network helps in project management.
 - (b) Write down the factors affecting the choice of mix design.
 - (c) Define the term concrete. Also write down any four properties of fresh concrete.

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P. T. O.

(e) What do you understand by prestressed concrete? Explain briefly.

SECTION - A

2 Draw the network and calculate:

20

(b) Latest occurrence time.

Earliest event time.

Slack if project duration is 29 days and hence determine the critical path.

1	Н	G	F	n	D	C	В	A	Activity
T	E	D	0	В	A	1	1	,	pre
1	1		I	Н	G	F	Е	D	Successor
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10	9	oo	51	4	w	6	51	4	5
13	10	10	6	5	5	00	7	6	to

3. Draw the network and calculate the following:

20

(a) Earliest start time.

Earliest finish time.

Latest start time.

Latest finish time.

Total float.

Ξ			Tell.							13
FIEE HOAL	Activity	Α .	В	С	D	H	F	G	Н	1
	pre	1	+		Α	В	С	D	H	F
	Successor	D	E	F	G	Н	1	i	1	1
	-Duration	4	5	6	ω.	4	5	00	9	10

SECTION - B

4. What are the effects of the shape and texture of $\frac{\omega}{\omega}$ aggregates on the strength and workability of $\frac{\omega}{\omega}$ concrete? Explain in detail. concrete? Explain in detail

5. Explain in detail:

(a) How does a workability? essed concrete.

(3)

P. T. O. O.

(b) Types of prestressed concrete.

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20 a and papers from StudentSuvidha.com