Total No. of printed pages = 2

19/3rd Sem/UCE304

2021

BUILDING MATERIALS AND CONSTRUCTION

Full Marks - 100

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer all questions.

- (a) In a building construction, define the role of materials in terms of safety issue and functional design.
 - (b) Why do we need curing?
 - (c) What do you mean by prefabrication in construction? Define its advantages and disadvantages.
- 2. (a) Write the physical characteristics and chemical composition of all the following materials: 10
 - (i) Pozzolana
 - (ii) Fly ash.
 - (b) Elaborate segregation and bleeding of concrete.

[Turn over

3. (a)	Describe in details about the following test/experiment of brick: 10
	(i) Water absorption
	(ii) Efflorescence.
(b)	What do you mean by Ideal mortar? Describe in details about its properties. 10
4. (a)	Write in details about the following: $4\times3=12$
	(i) Igneous rock
	(ii) Stone dressing
bas :	(iii) Rubble masonry.
(b)	Write in details about the various defects in timber. Also, mention its preventive treatments.
5. (a)	Write in details about composition of paints.
(b)	Describe in details the following: $5 \times 3 = 15$
*	(i) Role of admixtures in fresh concrete.
	(ii) Transporting methods of concrete.
ild yr . Ur	(iii) Bonds for brick work.
31/19/31	rd Sem/UCE304 (2) 100