Reg. No.:					

## **Question Paper Code: 50142**

## B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Fourth Semester

Civil Engineering

	15UCE402 - CONSTR	RUCTION TECHNIC	QUES, EQUIPMENT	CS AND PRACTICES		
		(Regulati	ion 2015)			
Dι	uration: Three hours			Maximum: 100 Marks		
		Answer AL	L Questions			
		PART A - (10 :	x 1 = 10 Marks)			
1.	. Slump test for concrete is carried out, to determine					
	(a) Strength	(b) Durability	(c) Workability	(d) Water content		
2.	2. Separation of coarse aggregates from mortar during transportation, is known					
	(a) Bleeding	(b) Creeping	(c) Segregation	(d) Shrinkage		
3.	Stones used for rubble	e masonry must be				
	(a) Soft	(b) Hard	(c) Light	(d) Heavy		
4.	4. The portion of brick cut across the width, is called					
	(a) closer	(b) Half brick	(c) Bed	(d) Bat		
5.	Dampness Causes					
(a) Efflorescence			(b) Bleaching of paints			
(c) Crumbling of plaster			(d) Growth of termites			

(c) Lime Putty

(d) Cement wash

6. The base material for distemper is

(b) Lime

(a) Chalk

High pressure grouting is	is generally restor	ed for concreting in the	lining, if the rock	strata		
(a) Highly fissured		(b) poor				
(c) likely to get seep	page of water	_				
The durability of building	ng stone masonry	is affected by its				
(a) Chemical compo	osition	(b) Texture				
(c) Location in struc	cture	(d) All the above				
9. For concreting tunnel linings, transportation of a concrete is done by						
(a) Pans		(b) Wheel barrows				
(c) Containers		(d) Pumps				
Transportation of concr	ete by pumps, is d	one for a distance of				
(a) 100m	(b) 200m	(c) 300m	(d) 400m			
	PART - B (5 2	x 2 = 10  Marks				
What is grade of cemen	t? List any three g	rades of cement.				
What are the steps invo	lved in site clearar	nce?				
What are the damp prod	ofing materials?					
Define repair.						
What is motor grader?						
	PART - C (5 x	16 = 80 Marks)				
(a) Draw the flow diag same.	ram for the manuf	facturing of cement by o	dry process. Expla	in the (16)		
	(	Or				
(b) List the tests condu	cted on fresh conc	rete. Explain any two te	ests.	(16)		
(a) (i) What are the ty	pes of bonds in br	ick masonry.		(6)		
(ii) Distinguish bet	ween Flemish and	English bond in brick r	nasonry.	(10)		
	(	Or				
(b) Name the different	types of scaffoldir	ng. Explain any two type	es of scaffolding.	(16)		
	(a) Highly fissured (c) likely to get seep  The durability of building (a) Chemical composition (c) Location in struct  For concreting tunnel little (a) Pans (c) Containers  Transportation of concreting to the concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (b) List the tests conduction to the concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (b) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (b) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (c) Containers  Transportation of concreting tunnel little (a) Pans (a) 100m	is  (a) Highly fissured (c) likely to get seepage of water  The durability of building stone masonry (a) Chemical composition (c) Location in structure  For concreting tunnel linings, transportati (a) Pans (c) Containers  Transportation of concrete by pumps, is d (a) 100m (b) 200m  PART - B (5 x)  What is grade of cement? List any three g What are the steps involved in site clearar What are the damp proofing materials?  Define repair.  What is motor grader?  PART - C (5 x)  (a) Draw the flow diagram for the manufasame.  (b) List the tests conducted on fresh concellation of the co	is  (a) Highly fissured (c) likely to get seepage of water  (d) All the above  The durability of building stone masonry is affected by its  (a) Chemical composition (b) Texture (c) Location in structure  (d) All the above  For concreting tunnel linings, transportation of a concrete is done  (a) Pans (b) Wheel barrows (c) Containers  (d) Pumps  Transportation of concrete by pumps, is done for a distance of (a) 100m (b) 200m (c) 300m  PART - B (5 x 2 = 10 Marks)  What is grade of cement? List any three grades of cement.  What are the steps involved in site clearance?  What are the damp proofing materials?  Define repair.  What is motor grader?  PART - C (5 x 16 = 80 Marks)  (a) Draw the flow diagram for the manufacturing of cement by a same.  Or  (b) List the tests conducted on fresh concrete. Explain any two tests of the same of the sa	(a) Highly fissured (c) likely to get seepage of water (d) All the above  The durability of building stone masonry is affected by its  (a) Chemical composition (b) Texture (c) Location in structure (d) All the above  For concreting tunnel linings, transportation of a concrete is done by (a) Pans (b) Wheel barrows (c) Containers (d) Pumps  Transportation of concrete by pumps, is done for a distance of (a) 100m (b) 200m (c) 300m (d) 400m  PART - B (5 x 2 = 10 Marks)  What is grade of cement? List any three grades of cement.  What are the steps involved in site clearance?  What are the damp proofing materials?  Define repair.  What is motor grader?  PART - C (5 x 16 = 80 Marks)  (a) Draw the flow diagram for the manufacturing of cement by dry process. Explasame.  Or  (b) List the tests conducted on fresh concrete. Explain any two tests. (a) (i) What are the types of bonds in brick masonry. (ii) Distinguish between Flemish and English bond in brick masonry.		

18.	(a)	(i)	Briefly explain the sources of dampness.	(10)				
		(ii)	What are the effects of dampness?	(6)				
	Or							
	(b)	(i)	List out the types of acoustical material? Explain the same.	(10)				
		(ii)	What are the qualities required for the good acoustical materials?	(6)				
19.	(a)	(i)	What are the factors influencing corrosion of reinforcement?	(10)				
		(ii)	What are the protective coatings used for the reinforcement?	(6)				
			Or					
	(b)	Brie	efly explain about the stages of repair in concrete structure.	(16)				
20.	(a)	a) What are the factors to be considered in the selection of construction equipment?						
				(16)				
			Or					
	(b)	(i)	What are the different types of scrapers?	(6)				
		(ii)	What are the different types of earth work equipment? Explain any two typequipment.	pe of (10)				