Reg. No.:					

**Question Paper Code: 43102** 

## B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Third Semester

Civil Engineering

## 14UCE302 – CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks

**Answer ALL Questions** 

	(Use of IS 10262:20	009 and IS 456:2	000 code books are permitted	)		
	P	ART A - (10 x 1	= 10 Marks)			
1.	In the manufacture of cement, the dry or wet mixture of calcareous and argillaceou materials is burnt at a temperature between					
	(a) $900^{\circ}C$ to $1000^{\circ}C$		(b) $1000^{\circ}C$ to $1200^{\circ}C$			
	(c) $1200^{\circ}C$ to $1500^{\circ}C$		(d) $1500^{\circ}C$ to $1600^{\circ}C$			
2.	A badly mixed cement concrete results in					
	(a) segregation		(b) bleeding			
	(c) honey combing		(d) none of these			
3.	The form work from the underside of slabs, can be removed only after					
	(a) 1 day	(b) 4 day	(c) 7 day	(d) 14 day		
4.	In horizontal D.P.C, thickness of cement concrete (1:2:4) is					
	(a) 2 cm	(b) 4 cm	(c) 6 cm	(d) 8 cm		

5.	In ordinary residential a provided at	and public buil	dings, tl	he damp proof	course is g	enerally	
	<ul><li>(a) Ground level</li><li>(c) Water table level</li></ul>	` ´	Plinth le Midway	evel ground level and	d water-tabl	e level	
6. The timber having maximum resistance against white ants, is obtaine					ined from		
	(a) Chir (	(b) Shisham		(c) Sal	(d)	Teak	
7.	Pieces of stones are called	d					
	(a) Ballast (	(b) Spalls	(c) Crus	shed stone	(d) None of these		
8.	Pieces of stones are called	d					
	(a) ballast (	(b) spalls	(c) crus	hed stone	(d) none of	these	
9.	The Auger borings are no	ot common					
	<ul><li>(a) in soils that requir</li><li>(c) in soft soils</li></ul>	e lateral suppor	oport (b) in cohesive soils (d) none of these				
10.	To attain the required sha	pe of the tunnel	section				
	(a) easers (	(b) trimmers		(c) cut holes	(d)	chisels	
		PART - B (5 x	2 = 10  N	Marks)			
11.	List out some of the const	truction chemic	als com	monly used.			
12.	What are the requirement	s of good floor	?				
13.	Define dampness.						
14.	What do you meant by m	nodernization ar	nd rehab	ilitation?			
15.	On what basis you will se	elect the equipm	ent for t	he construction?			
		PART - C (5 x	16 = 80	Marks)			
16.	(a) Describe the processe	es in the manufa		ordinary Portlan	d cement.	(16)	
	(b) Enumerate the variou	ıs steps involve	d in the	manufacture of c	oncrete.	(16)	

17.	(a)	Explain the various types of flooring with neat sketches.	(16)
		Or	
	(b)	Explain the different types of joints in concrete structure with neat sketches.	(16)
18.	(a)	Explain the various methods of providing DPC? Also state the requirements an ideal material for Damp proofing.	of (16)
		Or	
	(b)	Bring out the general principles and factors in acoustical design of a hall.	(16)
19.	(a)	Explain the classification of cracks and how the cracks can be measured and reported.	(16)
		Or	
	(b)	<ul><li>(i) Give Some common types of repair works which can be applied in the rehabilitation of buildings.</li><li>(ii) Write short notes on grouting techniques.</li></ul>	(8) (8)
20.	(a)	What are the factors must be taken into account during selection of earthwork equipment?	k (16)
		Or	
	(b)	Discuss the role of tractors in earth moving. What considerations govern selection of wheel type or crawler type tractor on a job? Compare applications.	