Reg. No.:					

**Question Paper Code: 41312** 

## B.E. / B.Tech. DEGREE EXAMINATION, MAY 2016

Third Semester

Civil Engineering

## 14UCE302 – CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks

		Answer AI	LL Questions.					
	(Use of IS 10262:2009 and IS 456:2000 code books are permitted)							
		PART A - (10	x 1 = 10 Marks)					
1.	. In the manufacture of cement, the dry or wet mixture of calcareous and argillaceous materials is burnt at a temperature between							
	(a) 900°C to 1000°C (c) 1200°C to 1500°C		(b) $1000^{\circ}C$ to $1200^{\circ}$ (d) $1500^{\circ}C$ to $1600^{\circ}$					
2.	2. As per IS 456:2000list up to which grade of concrete nominal mix may be used							
	(a) M40	(b) M10	(c) M20	(d) M60				
3.	The minimum thickness	of a wall in stone i	nasonry should not be	less than				
	(a) 100 mm	(b) 200 mm	(c) 350 mm	(d) 450 mm				
4.	The piece of a brick cut of a full brick, is known		r equivalent to half th	e length and half the width				

(b) Bevelled closer (c) King closer

(d) Half king closer

(a) Queen closer

5.	In ordinary residential and public buildings, the damp proof course is generally provided at							
	(a) Ground level		<ul><li>(b) Plinth level</li><li>(d) Midway ground level and water-table level</li></ul>					
	(c) Water table level							
6.	A flexible material used for	or Damp proof Cou	urse is					
	(a) Bitumen sheeting		(b) Plastic Sheeting					
	(c) Mastic asphalt		(d) Cement concrete					
7.	Corrosion involves excha	inge of electrons in	corrosion.					
	(a) Chemical		(b) Electrochemical					
	(c) Both (a) & (b)		(d) Neither (a) nor (b)					
8.	For scaling cracks in conc	rete structures by u	ising epoxy, the minimum rout	ing should be				
	(a) 20 <i>mm</i>	(b) 15 <i>mm</i>	(c) 9 mm (	d) 6 <i>mm</i>				
9. Which one of the following is not an excavating and moving type of equipment?								
	(a) Bull dozer	(b) Clam shell	(c) Scraper (	d) Dump truck				
10.	Trenchers is used for							
	(a) Compacting		(b) Moving constructi	ion material				
	(c) Excavation		(d) None of the above	,				
		PART - B (5 x	2 = 10 Marks)					
11.	List out some of the const	ruction chemicals of	commonly used.					
12.	What are the requirements	s of good floor?						
13.	Name the various acoustic	defects that may be	pe found in auditorium.					
14.	Define repair.							
15.	On what basis you will se	lect the equipment	for the construction?					
		PART - C (5 x 1	16 = 80 Marks)					
16.	(a) Write the procedure for	or of mix design as	per IS10262:2009.	(16)				
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	(b)	Enumerate the various steps involved in the manufacture of concrete.	(16)
17.	(a)	Explain the various types of stone masonry with neat sketches.	(16)
		Or	
	(b)	Explain in detail about different types of joints in concrete structures.	(16)
18.	(a)	(i) Write the fire protective requirements of the building?	(8)
		(ii) Write a short essay on the various materials used for thermal insulation of build	(8)
		Or	
	(b)	Explain in detail about Dampness and its prevention.	(16)
19.	(a)	Explain causes of damage and deterioration in masonry and concrete structures.	(16)
		Or	
	(b)	Explain the various types of defects and their repair technique.	(16)
20.	(a)	What are the factors must be taken into account during selection of earth equipment?	work (16)
		Or	
	(b)	Describe in detail the various equipment used for compaction, batching and mixin concrete.	ng of (16)