Reg. No.:					

Maximum: 100 Marks

Question Paper Code: 41132

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

Third Semester

Civil Engineering

14UCE302 – CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulation 2014)

Duration: Three hours

(c) copper powder

Answer ALL Questions. (Use of IS 10262:2009 and IS 456:2000 code books are permitted) PART A - $(10 \times 1 = 10 \text{ Marks})$ 1. In a mortar the binding material is (c) surkhi (d) cinder (a) cement (b) sand 2. A badly mixed cement concrete results in (a) segregation (b) bleeding (c) honey combing (d) none of these The tendency of a stone is to split along (a) texture (b) fracture (c) cleavage (d) structure 4. 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 5. In fire proof paints the main consistent is (b) red lead (a) aluminium powder

(d) asbestos fibers

6.	Distemper is used to o	coat					
	(a) external concr(b) interior surfac(c) wood work(d) compound wa	e not exposed to weathe	er				
7.	The age of a tree can	be known by examining	g S				
	(a) cambium laye (c) medullary rays		(b) annular rings(d) heart wood				
8.	Pieces of stones are ca	alled					
	(a) ballast	(b) spalls	(c) crushed stone	(d) none of these			
9.	The Auger borings are	e not common					
	(a) in soils that re(c) in soft soils	quire lateral support	(b) in cohesive soils(d) none of these				
10.	Construction team me	eans					
	(a) an engineer	(b) an architect	(c) an owner	(d) all the above			
		PART - B (5 x 2	2 = 10 Marks)				
11.	What does the grade of	of cement denote?					
12.	What is the necessity	of providing construction	on joints?				
13.	Define dampness.						
14.	What do you meant by	y modernization and re	habilitation?				
15.	What are the equipme	nts needed for tunneling	g and trenching?				
		PART - C (5 x 1	6 = 80 Marks)				
16.	(a) Explain the various	us steps involved in the	manufacture of concrete.	(16)			
		Or					
	(b) Describe the proc	esses in the manufactur	e of ordinary Portland cemo	ent. (16)			
17.	(a) What is scaffolding	ng? Explain its various o	components and types with	sketches. (16)			

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	(b)	Explain the various types of flooring with neat sketches.	(16)
18.	(a)	Describe in detail the construction practices to be followed for acoustics and protection.	fire (16)
		Or	
	(b)	Explain the various methods of providing DPC? Also state the requirements of an imaterial for Damp proofing.	ideal (16)
19.	(a)	What are the defects normally observed in concrete structures? Discuss briefly tremedies.	their (16)
		Or	
	(b)	Explain the classification of cracks and how the cracks can be measured and reported	d. (16)
20.	(a)	Explain in detail the various equipment used for compaction, batching and mixin concrete.	g of (16)
		Or	
	(b)	Discuss the role of tractors in earth moving. What considerations govern the selection wheel type or crawler type tractor on a job? Compare their applications.	on of (16)