Reg. No. :					
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## **Question Paper Code: 53104**

## B.E./B.Tech. DEGREE EXAMINATION, DEC 2020

Civil Engineering

## 15UCE304 -HIGHWAY AND RAILWAY ENGINEERING

(Regulation 2015)

Duration: One hour			Maximum	Maximum: 30 Marks				
		PART A - (6	$5 \times 1 = 6 \text{ Marks}$					
		(Answer any six of t	he following questions)					
1.	The Indian Roads C	Congress was formed in	n the year	CO1 -R				
	(a) 1928	(b) 1934	(c) 1929	(d) 1930				
2.	The first 20 year de	CO1- R						
	(a) Nagpur road pla	n	(b) Lucknow road plan					
	(c) Bombay road p	lan	(d) Delhi road plan					
3.	Bitumen is obtained	d from		CO2-R				
	(a) Wood	a) Wood (b) Petroleum (c) Coal		(d) Kerosene				
4.	The mix design sho	ould take into considera	ation	CO2-R				
	(a) Stability		(b) Durability					
	(c) Stability and durability		(d) Age					
5.	The materials not in	CO3- R						
	(a) Stone	(b) Dust	(c) Soil	(d) Petrol				
6.	The most preferred	shape of highway drai	nage is	CO3-R				
	(a) Rectangular	(b) Trapezoidal	(c) Triangular	(d) Circular				
7.	The first Indian rail	CO4-R						
	(a) 1775	(b) 1804	(c) 1825	(d) 1853				

8.	The life of a wooden s	C	CO4-R						
	(a) quality of its timber	er	(b) ability to resist decay						
	(c) resistance to weath	nering	(d) all the above						
9.	If n is length of a rail in meters the number of sleepers per rail length generally varies from								
	(a) $n$ to $(n + 2)$	(b) $(n+2)$ to $(n+4)$	(c) $(n+3)$ to $(n+6)$	(d) $(n+4)$ to $(n+$	5)				
10.	Arrangement made to known as	divert the trains from	one track to another is	C	O5-R				
	(a) railway point	(b) railway crossing	(c) turnout	(d) railway junctio	n				
		PART – B (3	x 8= 24 Marks)						
	(Answer any three of the following questions)								
11.	What are the various of	CO1- U	(8)						
12.	What are the typical with a sketch.	tail CO2- U	(8)						
13.	Explicate the causes a	CO3 -Ana	(8)						
14.	What is meant by gradient with all the d	CO4- U	(8)						
15.	•	Drainage. How Surfac Railway track. Give al	e and Sub surface Wate l in detail.	er CO5- U	(8)				