Rashdo

31/217

PAPER – I DRAUGHTSMAN CIVIL (THEORY) SEMESTER – III

TIME: 3 HRS.

9.

10.

(a) 0.8%

Note: Attempt all the questic

MARKS: 150

		erry equal marks.	ng. 25% marks will l	be deducted for each wrong		
Choos	e the correct ans	swer.				
1.	The strength and quality of concrete depends on-					
	(a) Grade of the concrete		(c) Water cement ratio			
	(b) Grade of the cement		(d) All	of these		
2.	The entrained air in concrete-					
	(a) Increases workability		(c) Decreases strength			
	(b) Decreases w	orkability	(d) No	ne of these		
3.	After casting , an ordinary cement concrete on drying-					
	(a) Expands		1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	mains unchanged		
	(b) Shrinks		(d) Sw	ells		
4.	For slabs and beams, the grade of the concrete mixed, generally should not be less than-					
	(a) 1: 1: 4	(b) 1: 3: 6	(c) 1: 2: 4	(d) None of these		
5.	When R.C.C beam is subjected to bending, and the topmost layer elongates and the bottom on shortens, then that beam is called-					
	(a) Fixed beam		(c) Cantilever beam			
	(b) Simply supp	orted beam	(d) Do	ubly reinforced beam		
6.	A reinforced concrete beam will crack if tensile stress set up in the concrete below the neutra axis is-					
	(a) Less than permissible stress		(c) Equal to the permissible stress			
	(b) More than permissible stress		(d) None of these			
7.	For a simply supported slab of span (L) the overall minimum thickness of the slab should be-					
	(a) L/35	(b) L/30	(c) L/20	(d) L/12		
8.	The minimum thickness of the floor for buildings is usually-					
	(a) 2 cm	(b) 5 cm	(c) 9cm	- (d) 45cm		

(c) Top and bottom

(c) 6%

(d) None of these

Contd....2/-

(d) 8%

In a two way slab, the torsion steel is provided at-

(b) Bottom

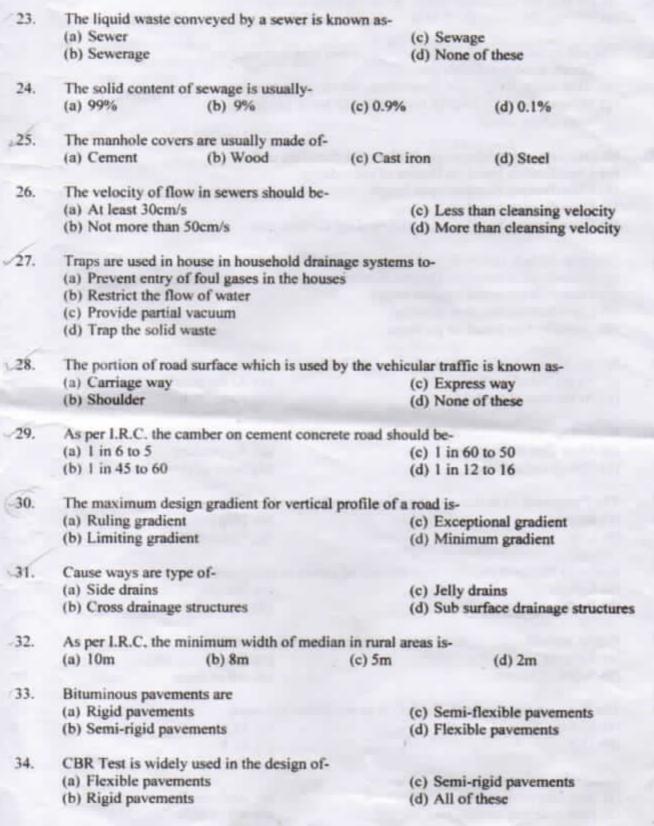
(b) 2.5%

The minimum percentage of reinforcement in RCC short column is-

-2-

11.	Horizontal loads (a) 305 kg/m	on domestic stairs, into (b) 75 kg/m	ernal balustrade or para (c) 200kg/m	apets are generally taken as- (d) 35 kg/m		
12.	As per IS 456 recommendations the thickness of footing edge on soils should not be less					
	(a) 10cm	(b) 12cm	(c) 15cm	(d) 20cm		
13.	The maximum number of steps in flight of a stair case should be restricted up to-					
	(4) 0	(b) 10	(c)12	(d) 20		
14.	The minimum size of reinforcement bars in RCC column is-					
	(a) 12mm	(b) 8mm	(c) 10mm	(d) 18mm		
15.	For RCC column, a column is considered to be short if the effective length to the least side ratio is less than-					
	(a) 30	(b) 24	(c) 12	(d) 16		
16.	A strut is a - (a) Flexible member (c) Torsion member					
	(b) Compression member		(c) Torsion member (d) Tension member			
17.	A tie is a-					
	(a) Flexible memb		(c) Tors	ion member		
	(b) Compression r	nember	(d) Tens	ion member		
18.	The rivets which a	The rivets which are driven at atmospheric temperature are known as-				
	(a) Power driven s	shop rivets		driven rivets		
	(b) Hand driven ri	vets	(d) None	of these		
19.	When one member is placed above the other and they are connected by means of rivets, the joint is known as-					
	(a) Lap joint		(c) Doub	ole cover butt joint		
	(b) Butt joint			e cover butt joint		
20.	Rolled steel angle sections are classified					
	(a) Equal angles		(c) Bulb	angles		
	(b) Unequal angles		(d) All o	fthese		
21.	Slenderness ratio of a compression member is the ratio of effective length of member to the-					
	(a) Critical load		(c) Area	of cross-section		
	(b) Radius of gyrat	tion	(d) Weig	ht of the section		
22.	As compared to riveting, welding is preferred these days because -					
	(a) It is a silent pro	cess		more efficiency		
	(b) It is more econo	omical	(d) All of			

Contd....3/-



Contd....4/-

4

35.	As per IRC the maximum w	vidth be of a vehicle should-	As per IRC the maximum width be of a vehicle should-					
	(a) 2m (b) 2.		(d) 1.58m					
36.	The sub structure of the bridge supports super structure consists - (a) Doors, windows, lintels etc.							
	(b) Abutments, wing walls, foundations for the piers and abutments etc. (c) Masonry walls of English bond, Flemish bond, garden bond							
	(d) None of the above							
	(a) From or the above							
37.	Determinate and indeterminate bridges are classified under-							
	(a) Classification based on Degree of redundancy							
	(b) Classification based on span length							
	(c) Classification based on loadings							
	(d) Classification based on r	material used for construction	1:					
38.	Highway bridges and Railwa	av bridges are classified und	er.					
	(a) Classification based on I	Highway bridges and Railway bridges are classified under- (a) Classification based on Degree of redundancy						
	(b) Classification based on s	pan length						
	(c) Classification based on le	oadings						
	(d) Classification based on p	ourposes						
39.	In second Education of the I							
39.	In case of deck bridge, the pl							
	(a) At the top of the bridge		At the bottom of the bridge					
	(b) At the side of the bridge	(d)	None of these					
40.	In open spandrel arch bridge floor is supported by -							
	(a) More than one arches		Suspenders					
	(b) Beams and columns	(d)	None of these					
41.	The framework of horizontal and cross beam laid in alternate layers is called-							
	(a) Grip		Drip					
	(b) Crip	7.75	None of these					
42.	Railways transport requires le	Railways transport requires least amount of power as compared to its-						
	(a) Length	(c)	Weight					
	(b) Width	(d)	None of these					
43.	Proper amount must	be provided to outer rail abo	ove the inner rail					
	(a) Tangent		Gauge					
	(b) Super elevation	7.00	All of these					
44.	The standard boost of D. C.							
44.	The standard length of rails for		570.5					
	(a) 12.8m (b) 13.8	14.0	14.8					
	(0) 13.8	(d)	11.8					
45.	Creep of rails is prevented by using-							
	(a) Anti-corrosive system	(c)	Anti-creepers					
	(b) Anti-buckling system		All of these					
			Contd5/-					

-5.

46.	The fittings which are permanently fastened in the track for making connections of rail to rai and rail to sleepers are referred as-				
	(a) Fixtures	(c) Fastenings			
	(b) Rattle	(d) None of these			
1	CALL COMME	(d) None of these			
47.	Fish plates are usually made of-				
	(a) Wrought iron	(1) 14711			
		(c) Mild steel			
	(b) High carbon steel	(d) All of these			
48.	The standard length of motel along the				
40.	The standard length of metal sleepers is-				
	(a) 1.23m	(c) 3.98			
1	(b) 2.13	(d) 2.68			
49.	The members laid transversely under the rail for supporting and fixing them to the gauge distance apart are referred as-				
	(a) Sleepers	(c) Track bolts			
	(b) Rail bolts	COMPANY OF THE PARTY OF THE PAR			
_	57.6.3.3301.4.4446c	(d) All of these			
50.	The railway track from which the train is diverted is called-				
	(a) Diversion track	(c) Gap track			
	(b) Through track	(d) Null track			
	The state of the s	(d) Fruit track			
