1 1	"The	staff may not be held vertically" -	It is						
1	A	Personal error	В	Instrumental error					
	C	Natural cause	D	None of the above					
2	Cont	our lines can not cross one anothe	r exce	pf in the case of					
_	A	a vertical cliff	В	depression					
		An averbanging cliff	D	Summit					
3	-316	is the property of material to resis	t load	s, chemical action of atmosphere, rain,					
3	wate	water, snow etc.							
	A	Weight	В	Strength					
	С	Durability	D	Hardness					
4	Sano	dstone istype of rock							
	A	Igneous	B	Sedimentary					
	C	Metamorphic	D	None of the above					
5	Whi	ich type of paint is used on the sur	face e	xposed to heat, cold and water?					
	A	Oil paint	В	Asbestos paint					
	C	A leasing maint	D	Cellulose paint					
6	-	means arrangement of getting t	he ma	aximum advantage from the minimum or					
U	limited dimensions of a room.								
ė.	A	Flexibility	В	Roominess					
	C	Elegance	D	Grouping					
7	In c	In case of, there is common wall on both the sides.							
	A	Detached Building	В	Semi – Detached Building					
	C	Row house	D	High Rise Building					
8		The unit weight of cement is Kg/cum Kg/cum							
·	A	1000	B	1440					
-646-84)154		2000	D	7850					
9	+-	is the process by which water er	iters t	he surface strata of the soil and moves					
44	do	wnwards to the join the ground wa							
	A	Evaporation	В	Transpiration					
	C	Infiltration	D	Evapotranspiration					
10		is a structure so proportional that its own weight resists the forces exerted							
	up	on it.	В	Earthen dam					
	YA	Gravity dam	D	Arch dam					
	C	Rock fill dam	1000000	ad of a main canal taking off from a					
11			110 1108						
	A	servoir. Canal Head Regulator	В	Distributaries Head Regulator					
	C	Cross Regulator	D	Outlet					

12	If the F.S.L. of the canal is sufficiently below the bottom of the natural drainage trough so that canal water flows freely under gravity, the structure is called					
	A	Aqueduct	В	Super passage		
	C	Canal syphon	D	Level Crossing		
13	13 The distance between two parallel rail sections for Broad gauge line is					
	A	0.762 m	В	1.00 m		
1 6 0	C	1.20 m	D	1.676 m		
14	Whi	ch test determines the grade of bitu	men?			
	Α	Ductility test	В	Softening point test		
	C	Viscosity test	D	Penetration test		
15		is the instant of time which m	arks t	beginning or end of the job or activity.		
	A	Event	В	Arrow		
	C	Float	D	Network		
16		average of the speed measurement vn as	s at o	ne point in space over a period of time is		
	A	Space mean speed	В	Time mean speed		
67	С	Spot speed	D	Design speed		
17	The number of vehicles passing a specified point during a stated period of time is known as					
	A	Speed	В	Flow		
	C	Concentration	D	Headway		
18	form	The state of the s	m the	atmosphere to the earth surface in any		
	A	Transpiration	В	Evapo- transpiration		
	C	Infiltration	D	Precipitation		
. 19	The calle	line on a rainfall map of the basin.	oinin	g places of equal rainfall readings is		
المناسبين	A	Isohyet	В	Contour		
	С	Polygon	D	Camber		
20	The	sub tense bar is used to measure	V			
	A	vertical distance	В	Inclined distance		
	C	Horizontal distance	D	None of the above		
21	Hori	zontal distance obtained by tacheo	metri	c observations		
	A	Require slope corrections	В	Require pull corrections		
	С	Do not require slope and pull cor	D	Require slope and pull corrections		

22	The	The multiplying constant of the tacheometer is							
	A	fxi	В	i/f					
	C	f/i	D	d/i					
23	The	size of aggregates less than 4.75 n	nm is	called					
	A	Fine Aggregate	В	Coarse Aggregate					
	C	Ballast	D	Rubble					
*24**	The	specific gravity of the cement is	giğatşı il	es a seminario de trada institutivo e calciletado e escribi					
	A	2.6	В	2.9					
	C	3.0	D	3.15					
25		discharge of the pipe iscurvelocity is 2 m/sec.	m per	sec if the diameter of the pipe is 1.2 m					
	A	2.26	В	3.26					
	C	4.26	D	5.26					
26		The principle of virtual work can be applied to elastic system by considering the virtual work of							
	A	internal forces only	В	external forces only					
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	С	internal as well as external forces	D	none of the above					
27	Cast	Castigliano's first theorem is applicable							
	A	for statically determinate structures only	В	when the system behaves elastically					
ieus ys	С	only when principle of superposition is valid	D	none of the above					
28	Prin	ciple of superposition is applicable	wher	n					
1,54 3 5 (2.1	Α	deflections are linear functions of applied forces	В	material obeys Hooke's law					
	· C···	the action of applied forces will be affected by small deformations of the structure	D:	none of the above					
29		noment distribution method, the sur ting at any joint is always	m of d	distribution factors of all the members					
Ī	A	zero	В	less than 1					
Ī	С	1 Prima Mars	D	greater than 1					
30	The	carryover factor in a prismatic men	mber	whose far end is fixed is					
Ī	Α	0	В	1/2					
	C.	3/4	D	1					

31	Whic	ch of the following is not the disp	laceme	nt method ?		
	A	Equilibrium method	В	Column analogy method		
_	C	Moment distribution method	D	Kani's method		
32	Size	of a fillet weld is				
-	Α	Throat Thickness	В	Longer Side		
ł	С	Shorter side	D	Average of longer and shorter side		
33	Whi	ch of the following section is not	prefer	red in case of beam design?		
	A	Over-reinforced section	В	Under-reinforced section		
	С	Balanced section	D	Curved section		
34	Asp	er I.S. 456 - 1978, the pH value of	of wate	r shall be		
=	A	less than 6	В	equal to 6		
	C	not less than 6	P	equal to 7		
35	The	minimum number of main steel	bars pr	ovided in R.C.C.		
	A	rectangular columns is 4	В	circular columns is 6		
	C	octagonal columns is 8	D	all the above		
36	The	e maximum area of tension reinfor	rcemer	t in beams shall not exceed		
	A	0.15%	В	1.5%		
	С	4%	D	1%		
37	An	An R.C.C. column is treated as long if its slenderness ratio is greater than				
	A	30	В	35		
	C	40	D	50		
38	Ca	Cantilever retaining walls can safely be used for a height not more than				
	A	3 m	В	4 m		
	C	10 m	D	6 m		
*39	Be	nding compressive and tensile str	esses r	espectively are calculated based on seasons		
	A	net area and gross area	В	gross area and net area		
L ine din	C	net area in both cases	D	gross area in both cases		
40	If in	the thickness of thinnest outside p tension will be taken as	olate is	10 mm, then the maximum pitch of rivets		
	A	120 mm	В	200 mm		
	C	160 mm	D	300 mm		
41	W	hich of the following types of riv	eted jo	int is free from bending stresses?		
	A	lap joint	В	butt joint with single cover plate		
	C	butt joint with double cover plates	D	none of the above		

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4	2 1 n	The difference between gross diameter and nominal diameter for the rivets up to 25 mm diameter is							
	A	1.0 mm	В	3 1.5 mm					
	C	2.0 mm	D	2.5 mm					
43	43 As compared to field rivets, the shop rivets are								
	A	stronger	В	weaker weaker					
473	C	equally strong	D	any of the above					
44	M of	inimum pitch of the rivets shall no rivet	t be l	ess than where d is gross diameter					
	A	1.5 d	В	2.0 d					
	C	2.5 d	D	3.0 d					
45	Ef	ficiency of a riveted joint, having t	he mi	inimum pitch as per IS: 800, is					
	Α	40%	В	50%					
	C	60%	D	70%					
46	Di	ameter of a bolt hole is usually tak	en as	16					
	A	gross diameter of bolt	В	nominal diameter + 1.5 mm					
	C	nominal diameter + 2.0 mm	D	nominal diameter of bolt					
47	Th	The slenderness ratio of lacing bars should not exceed							
	Α	100	В	120					
	C	145	D	180					
48	The	external wind pressure acting on	a roof	f depends on					
	A	degree of permeability of roof	В	slope of roof					
	C	both (a) and (b)	D	none of the above					
49	As j	As per IS: 875, for the purposes of specifying basic wind velocity, the country has been divided into							
- Meste	*A	4 Zones	B	5 zones in the state of the sta					
1000	С	6 zones	D	7 zones					
50	The	number of seismic zones in which	the c	country has been divided are					
5	A	3	B	5					
,	С	6	D	7					
51	Con	current forces are those forces who	se lin	es of action					
Ī	Α	meet at one point	В	lie on the same line					
	С	meet on the same plane	D	none of these					

52	If a m	umber of forces are acting at a poi	nt, the	ir resultant will be inclined at an angle o			
52	with the horizontal, such that						
}		$\tan \theta = \sum H/\sum V$	В	$\tan \theta = \sum V / \sum H$			
	C	$tan \theta = \sum V x \sum V$	D	$\tan \theta = \sum V x \sum H$			
52	The	entre of gravity of a semi-circle li	es at a	distance of from its base			
33	The centre of gravity of a semi-circle need at a measured along the vertical radius.						
			В	8r/3			
1300144	Harris III	2-/ 9	D	$4r/3\pi$			
54	The	minimum force required to slide a	body	of weight W on a rough horizontal plane			
5.	is						
	A	none of these	В	W sin θ			
	C	W cos θ	D	W tan θ			
55	Whic	ch of the following are vector qua	ntities	?			
	A	Linear displacement	В	Linear acceleration			
	C	all of these	D	Linear velocity			
56		k's law holds good up to					
30	A	Yield point	B	Elastic limit			
	C	Plastic limit	D	None of the above			
57		ratio of lateral strain to the linear	strain	is			
31	THE	Tatio of Missing Control		A CONTRACTOR OF THE CONTRACTOR			
	A	Bulk modulus	В	Young's modulus			
	C	Poisson's ratio	D	Modulus of rigidity			
58	Eule	er's formula holds good only for	The Mid	- High Control of the			
	A	short columns	B	long columns			
		Lash short and long columns	D	weak columns			
59	Cor	ppression members always tend t	o buck	de in the direction of the			
	-	- Cloud	B	perpendicular to the axis of load			
John Guille fille	A	axis or ross section	D **	least radius of gyration			
	7	nciple plane is a plane on which the	ne she	ar stress is			
60			В	Minimum			
	A	Zero	D	None of the above			
	C	Maximum	20.00	3			
61	Co	ncrete grows with age. This states		false			
	A	true	В	given by Duff Abrams			
	C	debatable	D				
62	2 Se	paration of the coarse aggregate f		ortar is called			
	A	bleeding	В	segregation			
	C	compaction	D	none of the these			

63	Blee	ding can be prevented by			
	Α -	controlling water content	В	using finely ground cement	
	С	controlling compaction	D	all the above	
64	For	quality control of Portland cement,	the to	est essentially done is	
	A	setting time	В	tensile strength	
	С	Soundness & consistency	D	all the above	
65	M10	grade of concrete approximates	in indi	१२ विक्रमण्डा (१८२५) क्रिके हो १००० च्यामा (४४) हो आपनिक्षण प्राप्त १६४ वटा व	
	A	1:3:6 mix	В	1:1:2 mix	
	С	1:2:4 mix	D	1:1.5:3 mix	
66	For	ensuring quality of concrete, use			
	A	single sized aggregates	B	two sized aggregate	
	С	graded aggregates	D	coarse aggregates	
67	The	mixture of different ingredients of	ceme	ent, is burnt at	
	A	1000°C	В	1200°C	
	C	1400°C	D	1600°C	
68	Pern	nissible compressive strength of M	300		
	Α	100 N/mm ²	В	200 N/mm ²	
	C	150 N/mm ²	D	300 N/mm ²	
69	While compacting the concrete by a mechanical vibrator, the slump should not				
	Α	2.5 cm	В	5.0 cm	
	С	7.5 cm	D	10 cm	
70	Wor	kability of concrete is measured by	y		
	A	Vicat apparatus test	В	Slump test	
	C	Minimum void method	D	Talbot Richard test.	
71	*Cho	ose the right one. A fixed beam is	Production 4	総理事務情報指導を設定をおかります。	
	Α	Determinate Structure	В	Indeterminate Structure	
produced contra-	C	Un-Stable	D	None of the above	
72	Control of the Contro	n we provide a hinge in a structure librium increase by:	, the	numbers of equations of static	
	Α	1	В	2	
	C	3	D	4	
73	Sim	plest form of a perfect frame is			
	Α	Rectangle	В	Triangle	
	С	Square	D	Pentagon	

		1 manufer forces	runk	mown reaction components and j number act of a pin-jointed plane frame is given				
74	If the	acy of a pin-jointed plane frame is given						
	by							
}		m+r+2j	В	m - r + 2j				
1	15		D	m+r-3j				
		m+r-2j	> 2i t	hen the frame is where m is				
75	If in a pin-jointed plane frame $(m+r) > 2j$, then the frame is where m in number of members, r is reaction components and j is number of joints.							
40	A	stable and statically determinate	B	stable and statically indeterminate				
	C	unstable	D	none of the above				
76	The	bricks required for 10 cum of Bric	k Ma	sonry work is				
70	A	50 Nos	В	500 Nos.				
	C	5000 Nos	D ·	50000 Nos				
\		volume of one bag of cement bag	is					
77			B_	0.035 cum				
	Α	0.35 cum	D	0.00035 cum				
	C	0.0035 cum						
78	The	cement consumption in cement	piaste	r of 20 mm thickness having proportion of				
	(1:3)) for 100 sq m area is	В	22 Bags				
	Α	15 Bags						
	C	28 Bags	D	32 Bags				
79	The	weight of 20 mm steel bar per me	eter le	ngth is				
	A	1.58 Kg	B	2.46 Kg				
	C	2.98 Kg	D	3.85 Kg				
80	Hor	ney comb brick masonry is measur	red in					
80	A	Cum	В	Meter				
	C	Cam	D	Nos				
		sq iii	e foot	ings of individual columns, connected by a				
81,	bea	A COMMAND TO STATE OF THE STATE						
	A	Strap footing	B	Raft foundation				
, i la salata pa	C	Strip footing	D	Grillage foundation				
82	A	is a full brick laid with its le	ength	perpendicular to the face of the wall.				
82		Header	В	Stretcher				
	A	Course	D	Bond				
74		is the depression made on the	ton f	ace of the brick				
83			В	Perpend				
74	Α	Plinth						
	C	Jambs	D	Frog				

84	is the highest point of extrados of an arch				
	A	Skew back	В	Haunch	
٠,	e	Crown	D	Spandril	
85	The	vertical outside member of the shu	itter o	f a door is known as	
	A	Sill	В	Lock rail	
L	c	Style	D	Tanson	
86		is the fixed window provided alcount light to the room below	ng th	e sloping surface of a pitched roof to	
	A	Sky light	В	Bay window	
	C	Corner window	D	Lantern window	
87	Whi	ich of the following is a vehicle in t	he oi	l paint?	
	A	Iron oxide	В	Lamp black	
	C	Zinc oxide	D	Linseed oil	
88	-	is the upper horizontal portion of	of a st	ep upon which the foot is placed.	
1	Á	Tread	В	Scotia	
	С	Rise	D	Nosing	
89		height of riser will becm nd nos of tread are 19.	if the	vertical distance between each floor is 4	
ì	A	18	В	20	
	C	22	D	24	
90	The	reduced bearing of 230° is			
	Α	S 40 ⁰ W	В	S 50° W	
	C	S 50 ⁰ E	D	S 40° E	
91	Sum	mation of interior angles of a close	d trav	verse having 5 (five) stations are	
	A	180°	В	360°	ンは神
mre det	C	540 ⁰	D	720°	214
92	Fore	bearing of any line is 50°, the back	k bear		4 PG
	A	180 ⁰	B	2300	
	C	270 ⁰	D	360°	
93	The	first reading taken after setting up	of Le	veling instrument is called	
	A	Back sight	В	Fore sight	
	C	Intermediate sight	D	Balancing of sight	
94	Mini	imum area of drawing room is			
	A	5.4 Sq m	В	6.8 Sq m	
	С	9 Sq m	D	10.5 Sq m	
					-

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95	is used when two points whose difference of elevation is required are situated quite apart or their difference of elevation is large.						
	A	Fly leveling	В	Reciprocal leveling			
	C	Check leveling	D	Differential leveling			
96	The	preferable range of pH value for p	otable	e water is			
•	X	6 to 7.5	В	7 to 8.5			
1.00	C	8 to 9.5	D.	None of the above			
97	100	is the most common type of n	on au	tomatic rain gauge used in India			
	Α	Symon's rain gauge	В	Weighing Bucket type rain gauge			
	C	Tipping bucket type rain gauge	D	Float type rain gauge			
98	The amount of total solids should be preferably be less thanfor potable water						
	A	500 ppm	В	600 ppm			
	C	700 ppm	D	800 ppm			
99	consists of two circular arcs of same or different radii having their centre to the different sides of the common tangent						
	A	Simple curve	В	Compound curve			
1.0	C	Reverse curve	D	Transition curve			
100	a cu	is the beginning of the curve	wher	e the alignment changes from a tangent to			
	A	Point of Tangency	В	Point of Intersection			
	C	Point of Curve	D	Length of curve			

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