1. The recommended camber for water a) 1 in 40 to 1 in 50	er-bound macadam road is: b) 1 in 33 to 1 in 40
c) 1 in 25 to 1 in 33	d) 1 in 20 to 1 in 25
2. Camber in the road is provided for	
a) Counteracting the centrifugal force	
c) Having proper sight distance	d) Avoiding overturning
3. In highway construction on super e	elevated curves, the rolling shall proceed from
a) Sides towards the centre	b) Centre towards the sides
c) Lower edge towards the upper ed	d) Upper edge towards the lower edge
4. The curve provided at the change of	
a) Horizontal curve	b) Transition curve
c) Reverse curve	d) Vertical curve
5. The ideal form of the curve for the	summit curve is
a) Spiral b) Parabola	c) Circle d) Lemniscates
 6. For the preparation of highways a) Longitudinal sections are required b) Cross-section are required c) (a) and(b) are required d) None of the above 	
7. If the stopping distance and average	e length of a vehicle are 18m and 6 m respectively, then the
theoretical maximum capacity of a tra	
a) 1500 b) 2000	c) 2500 d) 3000
 8. Bitumen emulsion is: a) Liquid containing bitumen in sus b) Paint c) Used as anti-corrosive paint d) All the above 	spension
9. Bitumen in:a) Solid state is called asphaltb) Semi fluid state is called mineral ta	ar

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c) Fluid state is called petroleum

d) All of the abov	e			
10. In Brinell Hard a) Hard steel cone	•	ype of indenter u ld steel ball	sed is? c) Hard steel ba	d) Diamond cone
11. The camber for a) 2.0%	r hill roads in ca b) 2.5%	se of bituminous c) 3.0%	s surfacing is adopted d) 3.55	l as:
12. Creep of a mata) Disappearance ofb) To become brittc) Not being ductild) Continued deformance	of deformation of le e			
13. Bottom most la a) Wearing course	ayer of pavemen b) Base		Sub base course	d) Sub grade
a) Centre of the p	anel inel ininous surfacing	g is done on alre	b) Edge of the panel d) Dowel bar between ady existing black top	
16. Minimum dept a) 15cm			Gauge wooden sleep d) 30cm	
17. To provide a ca	ant in rails, woo b) Cutting	den sleepers are c) Boxii	=	seat, which is known as ng
18. If a is the angle method is given by $\mathbf{a})\frac{1}{2}\cot\frac{\alpha}{2}$	•	I then the number c)cot α	er of crossing 'N' acc d) $\frac{1}{2}$ cosec $\frac{\alpha}{2}$	_
19. Border roads (a) 1947	organization for b) 1954	hilly regions wa c) 1958	s formed in d)1960	
20. Bottom most la a) Wearing course	-	nt id known as e course	c) Sub-base course	d) Sub grade

21. In India the first p	reference is given to r	oads for what purposes?	
a) Transportation	b) Safety aids	c) Signal	d) Pedestrian signal
	within a city or town is		
a) Urban road	b) Town road	c) Country road	d d) Rural road
		4 1 2 2 2	
-	was constructed during	-	te: from Lahore to Delhi)
a) Sher shah suri		b) Deepak suri	
c) Santosh suri		d) Suresh suri	
24 3771:1 4 6	1	' 1540 / 1545 A DO	
• •		ring 1540 to 1545 A.D?	1) 77
a) Grand trunk	b) Road trunk	c) City trunk	d) Town trunk
25 Name of the dame	utmant which was four	med to look often the way	uls of mood construction during
-		ned to look after the wor	rk of road construction during
the period of load Dal			
a) Public works	· /	rivate works	
c) State works	d) (Central public works d	epartment
26 Which among the	Call College College	in 10202	
		ons was set up in 1930?	re /
a) Central road orga		b) State road organiz	
c) Town road organiz	ation	d) Urban road organ	1zation
27 4 1' 4 1 1'	1 1	0.0	1 1:1:000
	an roads congress, the	Of a roa	
a) Maximum width			th and minimum width
c) Minimum width an	d maximum length	d) Minimum lengt	th and maximum width
20 171	-11	1 1: 10(0	
	board was establis		s nere
a) Border road deve	_	b) Central road de	-
c) State road develop	ment	d) Defence road d	levelopment
20 1 77 7		11 1 0 1	
•	imendations the maxir	num limit of super eleva	ation for mixed traffic in
plain terrain is:			
a) 1 in 15	b) 1 in 12.5	c) 1 in 10	d) Equal to camber
20 1111			
		ituminous type of road?	
a) 1 in 48 to 1 in 60	,	to 1 in 24	
c) 1 in 24 to 1 in 30	d) 1 in 30	to 1 in 48	
• • • •	• •	oted in the design or road	
a) Exception gradient		b) Floating gradient	•

c) Average gradient		d) Ruling gradie	nt
32. It is defined as the	ne total rise or fall betwee	en any two points cho	osen on the alignment divided
by the horizontal dis	tance between two points	s:	
a) Ruling gradient	b) Varial	ole gradient	
c) Exceptional gradie	ent d) Avera	age gradient	
33. Centre of the roa	d is elevated with respec	t to edges. What is th	is?
a) Super elevation	b) Can	ıber	
c) Height of paveme	nt d) None	e of these	
34. The vehicle mov	ing on a level circular pa	th will expect pressur	re such that reaction on:
a) Outer wheel will b	be more	b) Inner wheel v	will be more
c) Inner as well as or	uter wheels will be equal	d) None of these	
35. Design of horizo	ntal curves on highways	is based on:	
a) Design speed of v	ehicles	b) Permissible fric	tion on the road surface
c) Permissible centri	fugal ratio	d) All of these	
26 Alama hamiaa mtal			
_	curves if centrifugal for		
a) Skid	b) Slip	c) Not affected at a	ll d)None of these
37. One degree of cu	rve is equivalent to:		
a) 1600/R	b) 1700/R	c) 1750/R	d) 1800/R
38. For the taxiways	the following statements	s true:	
a) The maximum lor	ngitudinal grade is 3%		c here
b) The permissible ra	ate of change of grade is	C 008***	3 1101 01111
	cansverse grade is 1.5%		
d) All of these	J		
39. Location of conto	our gradient for a highwa	ay is best set out from	n the:
a) Bottom to the sade	· ·	b) Ridge down the h	
c) Saddle down the		d) Bottom to the rid	
40. The maximum ra	ate of super-elevation (e)	is If speed	l of vehicle is v=80km/hr
radius of curvature (1	1	(M.P Sub Eng.2016)
a) 0.088	*	d) 0.7777 d)	0.333

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42. The classification of soil of Highway Research Board is based on:

a) Structural size of	the soil particle		
b) Plasticity features	S		
c) Constriction featu	ıres		
d) Both on particle	size constitution a	and plasticity specialty	
43. The Thickness of	of 'Domer' laid –lay	ver in 'Bitumen 'roads is:	
a) 5 to 10 cm	b) 2 to 10 cm	c) 1 to 2cm	d) 0.5 to 1.0 cm
44. Alignment of ro	ad is finally decode	ed on the basis of:	
a) Selection of route	b) Field sur	rvey c) Trace cut	d) None of these
45. Footpaths are hi	gher than the road s	surface, what is the range o	f their height?
a) 15cm to 20 cm	b)15cm to 25c	cm c) 20cm to 25cm	d) 15cm to 30cm
46. What are particular	larly provided in th	ne case of urban roads?	
a) Footpaths	b) Express way	c) Carriage way	d) Highway
			side of the chosen center line,
what should be the	width in case of stra	aight stretches and in case of	of sharp curves?
a) 15cm;30m	b) 15;40m	c) 10m;40m d) 15m	n;60m
48. The total annual	cost of highway tra	ansportation, if B=Rs.4000	0, C= 200, N = 100
a) 2	b) 3	c) 4 d) 5	
		wide carriage-way with	
a) 8m;2m	b) 10m;4m	c) 8m;4m	d) 8m;6m
y	our fut	ure begin	s here
		ng at a point and only one o	of the roads is important, then
the suitable shape of			
a) Circular	b) Tangent	c) Elliptical	d) Serpentine
~ .			
51. Select the correct			
		ds on the number of traffic	lanes
		on the speed of vehicle	
		ds on the length of wheel b	
d) Psychological ex	tra widening depe	ends on the speed of vehic	le
•		hicle depends upon:	
a) Condition of road		b) Condition of the tyres	
c) Presence of snow	moisture	d) All of these	

53. The color of	upper part of kil	ometer stone o	n road side in case	of state highway is:
a) Green	b) Yellow	c) Brown	d) Red	
54. The following a) Small truck with b) Tractor with c) Trolley with as d) Trolley with as	th axle load less axle load less that kle load less that	than 3.0 tons nan 3.5 tons n 4.0 tons	rcial vehicle in traff	fic surveys:
55. What is the m	ninimum strengtl	n of concrete re	quired for rigid pay	vement construction for low
volume rural Roa	ids?			
a) M:20Mix	b)M:2	25Mix	c)M:30Mix	d)M:40Mix
	y x traffic speed /traffic sped traffic density	d verage length	of a vehicle are 18n the at a speed of 10n d) 3000	n and 6 m respectively, then n/sec is:
58. The maximur	n value for the a	ngle of turning	of the nose gear fo	r large jet aircraft is limited to
a) 20°	b) 30°	c) 45°	d) 60°	
	e of a craft is 200	00 m the clear v	way at the end of th	e runway should not be less
than: a) 145m	b) 152.	5m c) 1	62.5m	d) 172.5 m
60. For the propo a) Master plan b) Grading plan	sed airport the s	urvey project p	rovides b) Topographic pl d) All of these	an
61. For night land	ling the threshol	ds are lighted:		
a) Green	b) Red	c) White	d) Yellow	1
62. Charpy test is a) A bending test		mpact test	c) A fatigue test	t d) A hardness test

	material for highwa	ay embankment	s is:		
a) Granular soil	b) Organi	ic soil	e) Silts		d) Clays
64. Penetration to	est on bitumen is use	ed for determini	ng its:		
a) Grade	b) Viscosity	c) Ducti	lity	d) Temp	erature susceptibility
65. Los Angeles	machine is used to to	est the aggregate	es for:		
a) Crushing stren	gth	b) Impact value	;		
c) Abrasion resi	stance	d) Water absorp	otion		
		•	-		
66. Penetration to	est on bitumen is use	ed for determini	ng its:		
a) Grade	b) Viscosity	c) Ductility	_) Temperature	e susceptibility
,	, ,	, ,			1 ,
67. Los Angeles	machine is used to to	est aggregate:			
a) Crushing stren		value c) Abra	asion re	sistance (l) Water absorption
u) erusinig siren	Sm () imput				o) + acci accorption
68 When used in	n road work, the coef	fficient of hardn	ess of a	stone should	he greater than:
a) 17		2) 15	d) 12	stone snound	be greater than.
a) 17	0) 10		u) 12		
60 In a CDD toot	if the CDD value of	t 5 mm is greate	n than th	act at 2.5 mm	
	t, if the CBR value a				
	ue should be chosen	(O) 1	ne test	should be rep	<i>Jealea</i>
	C.1 1 111	1 1 1	Cal	-	•
c) Average value	of the should be use	ed d) N	one of the	-	
				-	
70. In Brinell Ha	rdness Test, the type	e of indenter use	ed is?	nese	
	rdness Test, the type		ed is?	-	d) Diamond cone
70. In Brinell Ha a) Hard steel con	rdness Test, the type e b) Mild s	e of indenter use steel ball	ed is? c) Hai	nese	
70. In Brinell Ha a) Hard steel con 71. The strength	rdness Test, the type e b) Mild s	e of indenter use steel ball roads is expresse	ed is? c) Har	rd steel ball	
70. In Brinell Ha a) Hard steel con	rdness Test, the type e b) Mild s	e of indenter use steel ball	ed is? c) Har	rd steel ball	
70. In Brinell Ha a) Hard steel con 71. The strength	rdness Test, the type e b) Mild s of the sub grade of re ity b) Mod	e of indenter use steel ball roads is expresse	ed is? c) Harded by: de reacti	rd steel ball	
70. In Brinell Haa) Hard steel con71. The strengtha) Bearing capac	rdness Test, the type e b) Mild s of the sub grade of re ity b) Mod	e of indenter use steel ball roads is expressedulus of sub grad	ed is? c) Harded by: de reacti	rd steel ball	
70. In Brinell Ha a) Hard steel con 71. The strength a) Bearing capac c) C.B.R value	rdness Test, the type e b) Mild s of the sub grade of re ity b) Mod	e of indenter use steel ball roads is expressed dulus of sub grad imum dry densi	ed is? c) Harded by: de reaction ty at O.M.	rd steel ball	
70. In Brinell Ha a) Hard steel con 71. The strength a) Bearing capac c) C.B.R value	of the sub grade of relity b) Mod d) Maximus ose of conducting maximus and the sub grade of relity b) Mod d) Maximus ose of conducting maximus and the sub grade of relity and the sub grade of reli	e of indenter use steel ball roads is expressed dulus of sub grad imum dry densi	ed is? c) Harded by: de reacti ty at O.M.	rd steel ball	d) Diamond cone
70. In Brinell Ha a) Hard steel con 71. The strength a) Bearing capac c) C.B.R value 72. What is purpe a) For Bitumine	of the sub grade of reity b) Mod d) Maximus ose of conducting maximus mix design	e of indenter use steel ball roads is expressed dulus of sub grad imum dry densi arshal stability to b) For Cer	ed is? c) Harded by: de reactify at O.M. eest? ment con	rd steel ball on M.C	d) Diamond cone
70. In Brinell Ha a) Hard steel con 71. The strength a) Bearing capac c) C.B.R value 72. What is purper	of the sub grade of reity b) Mod d) Maximus ose of conducting maximus mix design	e of indenter use steel ball roads is expressed dulus of sub grad imum dry densi	ed is? c) Harded by: de reactify at O.M. eest? ment con	rd steel ball on M.C	d) Diamond cone
70. In Brinell Ha a) Hard steel con 71. The strength a) Bearing capac c) C.B.R value 72. What is purpe a) For Bitumine c) For strength of	of the sub grade of reity b) Mod d) Maximus ose of conducting materials of sub grade	e of indenter use steel ball coads is expressed dulus of sub grad imum dry densi arshal stability to b) For Cer d) For suit	ed is? c) Hared by: de reacti ty at O.M. eest? ment con ability or	rd steel ball on M.C acrete pavement	d) Diamond cone CI°C nt Design
70. In Brinell Ha a) Hard steel con 71. The strength a) Bearing capac c) C.B.R value 72. What is purpe a) For Bitumine c) For strength of	of the sub grade of reity b) Mod d) Maxionse of conducting materials and grade of sub grade e ground on which the	e of indenter use steel ball coads is expressed lulus of sub grad imum dry densi arshal stability to b) For Cer d) For suita	ed is? c) Hared by: de reacti ty at O.M. test? ment con ability of	rd steel ball on M.C acrete pavement Bitumen d rests is called	d) Diamond cone the contract of the contract
70. In Brinell Ha a) Hard steel con 71. The strength a) Bearing capac c) C.B.R value 72. What is purpe a) For Bitumine c) For strength of	of the sub grade of reity b) Mod d) Maxionse of conducting materials and grade of sub grade e ground on which the	e of indenter use steel ball coads is expressed lulus of sub grad imum dry densi arshal stability to b) For Cer d) For suita	ed is? c) Hared by: de reacti ty at O.M. test? ment con ability of	rd steel ball on M.C acrete pavement	d) Diamond cone the contract of the contract
70. In Brinell Ha a) Hard steel con 71. The strength a) Bearing capac c) C.B.R value 72. What is purpe a) For Bitumine c) For strength of 73. The top of the a) Soil-sub grad	of the sub grade of reity b) Mod d) Maxionse of conducting materials and grade of sub grade e ground on which the	e of indenter use steel ball roads is expressed lulus of sub gradimum dry densionarshal stability to b) For Cerd) For suitable foundation of course c) V	ed is? c) Hared by: de reacti ty at O.M. eest? ment com ability of the roac Wearing	rd steel ball on M.C acrete paveme f Bitumen d rests is calle course d) B	d) Diamond cone the contract of the contract

75. The narrow strip cutting is known as:		ound level between the ini	ner toe of the bank and top edge of
a) Free board	b) Dowel	c) Spoil bank	d) Berm
76. In water Bound a) Sand	Macadam (WBM b) Stone dust) roads, binding material (c) Cement	used is: d) Brick dust
77. The highest poir a) Camber	nt on a carriage wa	ay is known as: c) Super elevation	d) Gradient
78. The value of rule a) 1 in 10	ing gradient in pla b) 1 in 15	nins as per Indian Road Co c) 1 in 20	ongress is: d) 1 in 30
79. The maximum a a) 1 in 12	llowable super ele b) 1 in 18	evation is: c) 1 in 15	d) 1 in 30
80. The main object a) To make the road b) To make the road c) To make the road d) All of these 81. Water Bound ma a) Crushed stone a	surface impervio	us See	
c) Disintegrated Roo	eks	d) Moorum	
82. What is the max pavements? a) 8 m centre to centre t	tre	b) 4.5 m centre d) 14.0 m centre	
83. The following is a) Alligator cracking c) Reflection Cracking	s not the flexible p		o to centre
84. The shift of the a) 0.32m	transition curve of b) 0.42m	f radius 300 m and length c) 0.52m	48 m is: d) 0.52m
85. Bureau of Indian second number resp		es bitumen into grades 65	5/25, 85/40 etc. the first and the

a) Flash point and fire point		b) Softening p	b) Softening point and penetration		
c) Flash point and softening point		d) Penetration	d) Penetration and softening point		
86. For a jeepable recommended a) 1 to 7	road in hilly area b) 1 to 12	gradient of 1 in 12 what c) 1 to 15	will be the maximum gradient d) 1 to 30		
87. The usual wid	th of side along hi	ghways in hilly region is	s:		
a) 50cm	b) 60cm	c) 70cm	d) 80cm		
88. The value of ra a) 1 in 5	maximum gradient b) 1 in 10	for the hill roads: c) 1 in 15	d) 1 in 20		
		el to roadway to intercept	t and divert the water from hill		
slopes is known a					
, ,	•	rnal friction 'Ø' of soil			
b) Seepage reduce					
c) Seepage reduce	es the effective nor	mal stress 'σ'			
d) All the above			400G /		
/					
		allel to roadway to roady	way to intercept and divert the wate	r	
from hill slopes is	known as				
a) Sloping drain			vater drain		
c) Side drain		d) Cross dr	rain		
0.1			ion at a place where maximum		
temperature is 40			ins here		
a) Less than 40 D	· ·	b) Equal to 4 Degree			
c) Greater than 4	10 Degree	d) Equal to 80 Degree			
	_	is done on already existi eatment to be given is:	ng black top road or over existing		
a) Seal coat	b) Prime c		d) Spray of emulsion		
, 	- / =	-, = 	., r =		
93. What is the pr	inciple cause of a	Creep?			
-	of rails due to mov	-			
b) Rigid holding					
c) Motions in eith		a single track			
d) Longer lengths					

			\mathcal{E} 1	eric conditions to not produce		
stress in flexible	-	_				
a) Temperature b) Pressu		Pressure	c) Tension	d) Capacity		
_	n of rigid pave	ments the flexur	al strength of conc	rete represents what type of		
factor?						
a) Major	b) Minor	c) Below ma	ajor d) Al	pove minor		
96. Standard siz	ze of wooden s	leeper for Broad	Gauge track is:			
a) 180 x 20 x 1	1.5cm	b) :	225 x 23 x13cm			
c) 250 x 26 x 1	2 cm	d)	d) 274 x 25 x 13 cm			
97. Which of th	e following is	used for servicin	ng and repairs of the	e aircraft?		
a) Apron	b) Han	ger	c) Terminal building	ng d) Holding apror	ì	
_		1				
98. The width o	f foot 90 R rai	l section is				
a) 100mm	b) 122.2	2mm c)	136.5mm	d) 146.0mm		
	,					
99. Track const	ruction involve	es preparation of	Sear	ine		
		es preparation of		d) All of these		
99. Track const. a) Sub grade		es preparation of Plate lying	c) Ballasting	d) All of these		
a) Sub grade	b)	Plate lying	c) Ballasting	d) All of these		
a) Sub grade	b)		c) Ballasting			

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