## (The question bank contains the illustrative example of objective, short notes as well as essay type questions, but this is not exhaustive.)

## **QUESTION BANK FOR WORKS**

## I. Choose the correct answer

	Additions and alteration with the prior approval of	•	ture in staff quarters	shall be carried out
	a. DEN	b. DRM	c. PCE	d. None of the above
2.	Use of new materials av	vailable in market ma b. DEN	y be used with the a <b>c. SAG</b>	pproval of d. None of the above
3.	Mosquito proof shutters a. Type III and above		in higher than <b>nd above</b> c. Typ	e V and above
4.	Group latrines should n a. 15 metres.	ot be located from we b.30 metres		water with in d. None of the above
5.	The number of water cle a. 2 Nos	osets to be provided b. 3 Nos	in office buildings for c. 4 Nos	100 persons. d. None of the above
6.	The number of urinals to a. 5 Nos	o be provided for wor b. 6 Nos	rkshop(Factories) for c. 7 Nos	male 200 persons. d. None of the above
7.	Hospitals important roo	m flooring should be b. Cement concrete	c. Granite	d. None of the above
	The colony committee v	e than	•	
	a. 500 Qrs	b. 1000 Qrs	c. 2000 Qrs	d. None of the above
9.	Transfer of buildings sh a. Colony committe	ould be affected with ee b. SIG		Committee ittee d. None of the above
10	). Colony committee will a. 1	be hold meetings on <b>b. 2</b>	ce in every c. 3	months d. None of the above
11	. Painting woodwork she	ould be normally beir		
12	a. 2-3 years 2. ADEN should inspect			d. None of the above
12	a. 10%	<b>b. 20</b> %	c. 50%	d. None of the above
13	B. Handing over of comm			
	open line with in		_	
	a. 30	b. 60	c. 90	d. None of the above

Major dismantling sites a. ADEN/AXEN	s minimum level of some b. DEN/XEN		nominated by d. None of the above
		washing for staff Qrs	s where rainfall is
a. 1 year	b. 2 years	c. 3 years	d. None of the above
The slope of Platform	end ramp should be	provided	
a. 1 in 6	b.1 in 8	c. 1 in 10	d. None of the above
The water supply system a.150	em should be design <b>b.200</b>	ed on the basis of at c.250	leastliters/person/day d. None of the above
	ategory 'E' for provis	ion of passenger am	enities should have
a. >Rs.3 crores	b. Between Rs.1-3	crores c. <1 crore	d. None of the above
_		ere a minimum occu	pation expected by
a. 40%	b. 60%	c. 100%	d. None of the above
Height of letters for Pri	incipal & Secondary	name boards are	
a. 75 mm	b.200mm	c. 300mm	d. None of the above
_	_	b. Blue figure on what d. None of the above	_
For foot-over bridges,	sub-way and pathwa	y the lowest overhea	ad clearance should be
a. 2 meters.	b.2.75 meters	c.3 meter.	d. None of the above
	_		
			e or plationii
-	_		d. None of the above
		cities and towns are	ioi a
		c 200 000	d. None of the above
•	•	•	G. 140110 01 1110 00000
_	<del>-</del>		
a. 1.5m	b. 2m	c. 2.5m	d. None of the above
	a. ADEN/AXEN  The schedule of white less than 1500mm pera. 1 year  The slope of Platform a. 1 in 6  The water supply system a.150  Station classified as calannual earning a. >Rs.3 crores  Retiring Room should commercial departmenta. 40%  Height of letters for Pria. 75 mm  Platform Number signera. White figure on c. Black figure on w.  For foot-over bridges, a. 2 meters.  The principal board hera. 1.5 meters  The minimum residual a. 0.1 ppm  The spacing of manhora. 30 meters  Booking office counterra. 0.5mt  Demarcation line should for free movement of parts a. 50,000  For foot over bridges are population of more than 3.50,000  For foot over bridges are population of passenge movement of passen	a. ADEN/AXEN b. DEN/XEN  The schedule of white washing and colour less than 1500mm per year once in a. 1 year b. 2 years  The slope of Platform end ramp should be a. 1 in 6 b.1 in 8  The water supply system should be design a.150 b.200  Station classified as category 'E' for provision annual earning a. >Rs.3 crores b. Between Rs.1-3  Retiring Room should be provided only who commercial department is a. 40% b. 60%  Height of letters for Principal & Secondary a. 75 mm b.200mm  Platform Number signs board colour should a. White figure on blue background c. Black figure on white background c. Black figure on white background b. 2.75 meters  The principal board height from platform le a. 1.5 meters b. 1.75 meters  The minimum residual free chlorine should a. 0.1 ppm b. 0.2 ppm  The spacing of manholes designed for 300 a. 30 meters b. 40 meters  Booking office counter bottom height should a. 0.5mt b 1mt  Demarcation line should be drawn at for free movement of passengers and not to a. 1.2m b. 1.5m  Large scale covering of platform covers at population of more than a. 50,000 b. 100,000  For foot over bridges and sub ways minimum novement of passengers should be	The schedule of white washing and colour washing for staff Qrs less than 1500mm per year once in a. 1 year b. 2 years c. 3 years  The slope of Platform end ramp should be provided a. 1 in 6 b.1 in 8 c. 1 in 10  The water supply system should be designed on the basis of at a.150 b.200 c.250  Station classified as category 'E' for provision of passenger am annual earning a. >Rs.3 crores b. Between Rs.1-3 crores c. <1 crore  Retiring Room should be provided only where a minimum occu commercial department is a. 40% b. 60% c. 100%  Height of letters for Principal & Secondary name boards are a. 75 mm b.200mm c. 300mm  Platform Number signs board colour should be a. White figure on blue background c. Black figure on white background d. None of the above a. 2 meters b. 2.75 meters c. 3 meter.  The principal board height from platform level to bottom of boar a. 1.5 meters b. 1.75 meters c. 2 meters  The minimum residual free chlorine should be available at tail e a. 0.1 ppm b. 0.2 ppm c. 0.3 ppm  The spacing of manholes designed for 300 mm diameter sewer a. 30 meters b. 40 meters c. 45 meters  Booking office counter bottom height should be m from the edge for free movement of passengers and not to allow the trolleys. a. 1.2m b. 1.5m c. 1.8m  Large scale covering of platform covers at cities and towns are population of more than a. 50,000 b. 100,000 c. 200,000  For foot over bridges and sub ways minimum width for novement of passengers should be m.

30.	All single face platform height of	·		
				d. None of the above
31.	As per scale of minimu		es at 'A' class station	nnumber of
	water taps should be o	n each platform.		
	a. 10			d. None of the above
	Water cooler may be p per day.			
	a. 500	b. 1000	c. 2000	d. None of the above
33.	Horizontal separation f	or water main to any	drain and sewer	m
	a. 1m	b. 2m	c. 3m	d. None of the above
34.	The rate of flow at deli	very end of hydrant s	shall not be less than	liters/min.
	a. 100	b. 150	c. 200	d. None of the above
35.	The size of pit before p a. 0.5 m <sup>2</sup>	planting should be		
	a. 0.5 m <sup>2</sup>	b. 0.75 m <sup>2</sup>	c. $1.0 \text{ m}^2$	d. None of the above
36	Provision of Lawns in (	Officers Bungalows n	nav he adonted as a	quideline
00.	a 100 m <sup>2</sup>	h 150 m²	c 200 m <sup>2</sup>	d. None of the above
37	Survey of surviving tre			
51.	2 15 cm	b 20 cm	c 50 cm	d. None of the above
20				
<b>3</b> 0.	Smoking is prohibited	while conveying, nan	idling of using of exp	Nosives with in
00	a. 5 m	D. 10 M	C.100 m	d. None of the above
39.	The minimum safety d	istance for heavy bla	sting not less than	
	a. 60 m.	b.100 m	c.150 m	d. None of the above
40.	Section 145 of the Rai	lway Act deals	nature of offe	nce c. Defacing public notice
	a. Obstructing Rly s	servant in his duty	b. Drunkenness	c. Defacing public notice
41.	The maintenance of La	aw and Order on railv	ways including runnir	ng trains dealt with
	a. RPF	<ul><li>b. Local Police</li></ul>	c. GRP	d. None of the above
42.	Rock to be blasted nea	ar by track should be	protected with wood	len sleeper
				d. None of the above
43.	When there is a tie at a	an action and a railwa	ay servant happens t	to be one of the bidders,
	offer shall be given pr			
			c. Cancel	d. None of the above
44.	Index Plan and Index S	Section should be pre	epared in sheet size	
	a. AO	b. A1	c. A2	
45.	At wayside stations wh			
	young trees may be er			matterning to
	a. Operating	h S&T	_ c. Commercial	d. None of the above
16	Title block should be d	rawn at	corner of drawing	a. None of the above
<del>-</del> 0.	a. Left bottom	h Pight hottom	Conner or drawing	d. None of the above
17				
47.	Blasting operations with		or a running line shot	uid be carried
	out under block protec		450	I Nicola Callera I and
4.0	a. 60m			d. None of the above
48.	No blasting should be	done within	$\underline{}$ hour of the time v	when any train is
	expected to pass.			
	a. ½			d. None of the above
49.	The responsible of Lav			
	a. RPF	b. GRP		d. None of the above
50.	Office records may be			
	a. SF/Works	b. DEN	c. PCE	d. None of the above

51. U	nder section 147 of th	ne Rly Act empowers	s a Rly official to effe	ct the arrest of
ar	ny person who has co	ommitted	offence	
	a. cognizable	b. non-cognizable	c. none of the above	e d. None of the above
52. R	eserve price for each	lot sold by auction s	should be fixed by	in
cor	nsultation with the Ac			
	a. ADEN	b. DEN	c.PCE	d. None of the above
53. Th	ne depth of pit for pla			
	a. ½			d. None of the above
54. Th	ne periodicity of inspe			
				d. None of the above
55. ln				e habitation is likely in
	ear future, boundary			
				d. None of the above
56 Fr	ncroachments by out			
00. L				d. None of the above
57 Fr				
57. LI	ngineer's Representa	h DEN	C Sr DEN	d. None of the above
58 C	ontract document sha			
	ontract document sin	all be signed in	(140 of copies) by	the Railway and
C.	a. 2	b.3	c.5	d. None of the above
50 T	<del></del>			d. None of the above
59. 11	he Security for Railwa	ay property lies with	o CDD	d. None of the above
CO A1				
60. AI	ii the communication	need to be in		d. None of the above
OI. LI		ill be imposed to extend		
	a. Railway	b. Contractor	c. Force Majeure cla	ause d. None of the above
62. C	a. Railway ontractor has to com	b. Contractor	c. Force Majeure cla	ause d. None of the above
62. C	a. Railway ontractor has to comi f acceptance	b. Contractor mence the work with	c. Force Majeure clain days afte	ause d. None of the above r receiving the letter
62. Co	a. Railway ontractor has to comi f acceptance a) 7	<ul><li>b. Contractor</li><li>mence the work with</li><li>b) 10</li></ul>	c. Force Majeure clain days afte	ause d. None of the above r receiving the letter  d. None of the above
62. Co o 63. Do	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E	b. Contractor mence the work with b) 10 Boundary stones sho	c. Force Majeure clain days afte	ause d. None of the above r receiving the letter  d. None of the above
62. Co o 63. Do	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart	b. Contractor mence the work with b) 10 Boundary stones sho m.	c. Force Majeure clain days afte  c) 15 uld, in no case be at	ause d. None of the above r receiving the letter  d. None of the above a greater
62. Co o 63. Do di	a. Railway ontractor has to coming acceptance a) 7 emarcation of Land Estance apart a. 50	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100	c. Force Majeure classin days afte  c) 15  uld, in no case be at  c. 200	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above
62. Co o 63. Do di	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size	c. Force Majeure classin days afte  c) 15  uld, in no case be at  c. 200	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above
62. Co o 63. Do di	a. Railway ontractor has to coming acceptance a) 7 emarcation of Land Estance apart a. 50 he boundary stones r	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground	c. Force Majeure classin days afte  c) 15  uld, in no case be at  c. 200  ze and section, proje	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about
62. Co o 63. Do di: 64. Th	a. Railway ontractor has to coming acceptance a) 7 emarcation of Land Estance apart a. 50 ne boundary stones recommended in the commended in t	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500	c. Force Majeure clain days afte  c) 15  uld, in no case be at  c. 200  ze and section, proje  c. 1000	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above
62. Co o 63. Do di: 64. Th —	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho	c. Force Majeure clain days afte  c) 15  uld, in no case be at  c. 200  ze and section, proje  c. 1000	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above
62. Co o 63. Do di: 64. Th —	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho	c. Force Majeure clain days afte  c) 15 uld, in no case be at  c. 200 ze and section, proje  c. 1000 puld be done by SE/	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &
62. Co o 63. Do di: 64. Th — 65. In SE	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month	c. Force Majeure clain days afte  c) 15  uld, in no case be at  c. 200  ze and section, proje  c. 1000  ould be done by SE/  c. 1 year	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above
62. Co o 63. Do di: 64. Th — 65. In SE	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month	c. Force Majeure clain days afte  c) 15  uld, in no case be at  c. 200  ze and section, proje  c. 1000  ould be done by SE/  c. 1 year	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above
62. Co o 63. Do di: 64. Th —— 65. In SE, 66. in	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months case of as per section days after pu	b. Contractor mence the work with  b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month on 17 of the Act the lablication of notice un	c. Force Majeure clain days afte  c) 15 uld, in no case be at  c. 200 ze and section, proje  c. 1000 ould be done by SE/  c. 1 year and can be occupied der Section 9(i) of the	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above above works &  d. None of the above act.
62. Co o 63. Do di: 64. Th —— 65. In SE, 66. in	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months case of as per section days after pu	b. Contractor mence the work with  b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month on 17 of the Act the lablication of notice un	c. Force Majeure clain days afte  c) 15 uld, in no case be at  c. 200 ze and section, proje  c. 1000 ould be done by SE/  c. 1 year and can be occupied der Section 9(i) of the	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above above works &  d. None of the above act.
62. Co o 63. Do di: 64. Th —— 65. In SE, 66. in	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months case of as per section days after pu	b. Contractor mence the work with  b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month on 17 of the Act the lablication of notice un	c. Force Majeure clain days afte  c) 15 uld, in no case be at  c. 200 ze and section, proje  c. 1000 ould be done by SE/  c. 1 year and can be occupied der Section 9(i) of the	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above above works &  d. None of the above act.
62. Co o 63. Do di: 64. Th — 65. In SE. 66. in —	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months case of as per section	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month on 17 of the Act the lablication of notice un b. 15 % to	c. Force Majeure clain days afte  c) 15 uld, in no case be at  c. 200 ze and section, proje  c. 1000 ould be done by SE/  c. 1 year and can be occupied der Section 9(i) of the	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above above works &  d. None of the above act.
62. Co o 63. Do di: 64. Th ————————————————————————————————————	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months case of as per section days after pu a. 10 quidated damage is ach week or part of the	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month on 17 of the Act the lablication of notice un b. 15 % to ne week. b. 1 to 2	c. Force Majeure clain days afte  c) 15 uld, in no case be at  c. 200 ze and section, proje  c. 1000 ould be done by SE/  c. 1 year and can be occupied der Section 9(i) of the c. 30 % of Contract value  c. 2 to 3	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above lon expiry of the act. d. None of the above of the work for  d. None of the above
62. Co o 63. Do di: 64. Th ————————————————————————————————————	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months case of as per section days after pu a. 10 quidated damage is ach week or part of the	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month on 17 of the Act the lablication of notice un b. 15 % to ne week. b. 1 to 2	c. Force Majeure clain days afte  c) 15 uld, in no case be at  c. 200 ze and section, proje  c. 1000 ould be done by SE/  c. 1 year and can be occupied der Section 9(i) of the c. 30 % of Contract value  c. 2 to 3	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above lon expiry of the act. d. None of the above of the work for  d. None of the above
62. Co o 63. Do di: 64. Th ————————————————————————————————————	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months case of as per section days after pu a. 10 quidated damage is ach week or part of the	b. Contractor mence the work with b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month on 17 of the Act the lablication of notice un b. 15 % to ne week. b. 1 to 2	c. Force Majeure clain days afte  c) 15 uld, in no case be at  c. 200 ze and section, proje  c. 1000 ould be done by SE/  c. 1 year and can be occupied ader Section 9(i) of the c. 30  % of Contract value  c. 2 to 3 on Category	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above lon expiry of the act. d. None of the above of the work for  d. None of the above
62. Co o 63. Do di: 64. Th ————————————————————————————————————	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months case of as per section days after pu a. 10 quidated damage is gach week or part of th a. 0.5 to 1 Il suburban stations h a. A	b. Contractor mence the work with  b) 10 Boundary stones sho m. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month on 17 of the Act the lablication of notice un b. 15 % to week. b. 1 to 2 have been included in b. B	c. Force Majeure clain days afte  c) 15 uld, in no case be at  c. 200 ze and section, proje  c. 1000 ould be done by SE/  c. 1 year and can be occupied der Section 9(i) of the c. 30 % of Contract value  c. 2 to 3 n Category c. C	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above I on expiry of the act. d. None of the above of the work for  d. None of the above
62. Co o 63. Do di: 64. Th 65. In SE, 66. in 67. Lie ea 68. Al 69. Ut	a. Railway ontractor has to come f acceptance a) 7 emarcation of Land E stance apart a. 50 ne boundary stones r mm above a. 300 spection of land bour /P.Way once in a. 3 months case of as per section days after pu a. 10 quidated damage is gach week or part of th a. 0.5 to 1 Il suburban stations h a. A	b. Contractor mence the work with b) 10 Boundary stones shom. b. 100 may be of suitable size ground b. 500 mdary verification sho b. six month on 17 of the Act the lablication of notice un b. 15 % to ne week. b. 1 to 2 nave been included in b. B he Rly Act empowers	c. Force Majeure clain days afte  c) 15  uld, in no case be at  c. 200  ze and section, proje  c. 1000  ould be done by SE/  c. 1 year  and can be occupied der Section 9(i) of the  c. 30  % of Contract value  c. 2 to 3  n Category  c. C  s a Rly official can no	ause d. None of the above r receiving the letter  d. None of the above a greater  d. None of the above ecting about  d. None of the above Works &  d. None of the above on expiry of the act.  d. None of the above of the work for  d. None of the above of the work for  d. None of the above  d. None of the above

70.				tracks should be avoided.	
	-	•	•	above d. None of the above	<b>)</b>
71.	Formation width for d		=	th in cutting	
	(excluding side drains	s) mı	m		
	a. 12550	b. 11150	c. 6850	d. None of the above and should ensure that it is	
72.	The pathways should	have a minimu	ım width of n	n and should ensure that it is	i
	clear of all obstructio				
	a. 1.5	b. 2	c. 2.5	d. None of the above	
73.	As per categories of	lines future ma	x permissible speed o	f Group 'A' line is	
	a. 110 Kmph	b. 130 Kmph	c. 160 Kmph	d. None of the above	
74.	For BG track the mini	mum length of	straight between reve	rse curve should be	
				d. None of the above	
75.	For BG 'A' category to	rack the minimu	um radius of vertical co	ırves shall be	
				d. None of the above	
76.	During final location s	survey masonry	pillars should be built	along the centre line at	
	intervals of not less th		•	3	
			c.1000 m	d. None of the above	
77.					
	a. 0.02%	b. 0.03%	c. 0.04%	d. None of the above	
78.	In land plan permane	nt land should	be marked in		
				d. None of the above	
79.				han of the Engineering Depa	artmen
	a. Dv.CE	b. XEN	c. Inspector	of Works(JE/SE/Works)	
80.	Order under sub-sect				
				d. None of the above	
81	Rates fixed for water				
•				d. None of the above	
82				urvey at intervals of not more	e than
<b>о</b>				d. None of the above	J tilaii
83	The minimum sleeper				
<b>.</b>				d. None of the above	
84				gs at every m	
O 1.	a. 10m			d. None of the above	
85	Index plan and section				
ΟΟ.				d. None of the above	
86				KM up stream side.	
00.	a. 2 km			d. None of the above	
87	Petty repair book sho			d. None of the above	
Ο1.				d. None of the above	
ጸጸ	Minimum radius of cu			d. None of the above	
00.	a. 175	b. 250		d. None of the above	
გე				h in cutting (excluding side	draine
	mm a. 6100	b. 625			
					DOVE
	The maximum permis		on transition curve Si	odia not more than	
	mm/second a. 35		c 100	d. None of the above	
Ω1					
	Departmental charge	a arrourd DE COI	iecieu nom deposit Wi	ЛК /0	
ı	ncluding land cost.	h 191/0/	o 150/	d None of the above	
	<b>a</b> 11170				

		g outside the railway		
the la	nd acquisition Act	by		
a.	Railway	b. Siding owner	c. Non of the above	d. None of the above
		shall be inclusive of		
				d. None of the above
		ils met with in excava		
				d. None of the above
		ng shall be for hard ro		d. None of the above
				ertical to ¼ <sup>th</sup> horizontal
				ertical to /4 Horizontal
		stone shall be betwe		d Nama of the above
				d. None of the above
		er by stock brick after	24 hours immersion	in cold water shall
	exceed by its weigh			
				d. None of the above
				ical sides of slab and beams.
a	. 7 days	b. 3 days	c. 24 to 48 hours	d. None of the above
99. Stock	k bricks are used t	the vertical and bed j	oints shall not more	than
a.	10 mm	b. 12 mm	c. 20 mm	d. None of the above
100. Rei	nforcement for hal	f-brick wall should be	e placed along the m	iddle of the joint
a.	every 4 <sup>th</sup> layer	b. every 6 <sup>th</sup> layer	c. every 10 layer.	d. None of the above
		asonry selected ston		
				d. None of the above
	•	g with old work tooth	-	
	. 5 cm			d. None of the above
				t be less than mt.
104 The	thickness of turfir	u. Jili sa motoriolo chall ba	c. Jiii	d. None of the above
a.	5-6CIII	D. 6-TUCIII	C. 10-12Cm	d. None of the above
405 Not			ما المصام ما الم	Jacks d Electrical avaladas
	more than	noies at a time sn		plasted Electrical exploder.
a.	5	b. 8	C. 10	d. None of the above
				. , 2
106. Sto	ck brick shall have	e a crushing strength	of not less than	kg/cm <sup>2</sup> when dry.
a.	33	b. 44	c. 55	d. None of the above
107. The	proportions of ce	ment mortar for point	ting should be	
a.	1:2	b. 1:3	c. 1:4	d. None of the above
108. All l	orick work in ceme	ent mortar shall be cu	red for at least	days.
	7 days	b. 10 days		d. None of the above
	,	,	•	
109. Wh	ere the surface is	to be plastered the jo	oint shall be raked cle	ear of mortar for
	pth ofmr	•		
	6mm		c. 20mm	d. None of the above
u.	O.I.IIII	~· ·= ······	J. <b>20</b> (1)(1)	a
110 Moi	tar to be used for	half brick wall not we	eaker than	
				d. None of the above
		~. I . T	U. I.U	4. I TOLIO OL 1110 (117777)

	No stone work/Brick with out scaffolding.	work shall be done a	bove m	from ground level
	a.1 m	b. 1.2m	c. 1.5m	d. None of the above
112.	In RR masonry bond more than		shall be provided in	every course not
	a.0.5m		c. 2m	d. None of the above
113.	Polio diseases is cau a. Bacteria		c. Flies	d. None of the above
114.	shall be r	esponsible for the ar	rangements to obta	in supply of water
	•	b. Railway	c. both	d. None of the above
115.	Up to three story build a. 10 m	_		er tank should be d. None of the above
116.	is responsiba. Railway			on to the original points d. None of the above
117.	permission of the En	gineer.		without previous ove d. None of the above
118.	Growth of algae in a a. Turbidity			d. None of the above
119.	approval to the expe	nditure is called		etent to give administrative
120.	Abstract estimate sho a. E.553	ould be prepared in F <b>b. E.702</b>		d. None of the above
121.		responsible for arrar	ngements to obtain	supply of electric power for
	the work a. Railway	b. Contractor	c. both	d. None of the above
122.	Estimates for deposit should be collected f		•	tes departmental charges than Rs.1 lakh
	a. 1%	b. 2%	c. 2.5%	d. None of the above
123.	Water borne disease a. Physical	s are caused due to b. Chemical	c. Bacterial	ies d. None of the above
124.	pH value is a symbol a. Hydrogen ion	for c b. Nitrogen ion		d. None of the above

125.	The aeration of water a. Bacteria	is done for the remo	oval of c. odder	d. None of the above
126.	In monsoon period, _ a. Renovation	works should b. Construction	ıld not be carried out c. Earthwork	d. None of the above
127.	In water distribution s should be		end, the minimum re	esidual gauge pressure
	a. 1	b. 2	c. 4	d. None of the above
128.	Maximum Velocity of a. 1	flow in a sewer is red <b>b. 2</b>	commended not to e c. 3	
129.	Detailed estimate sho a. E.702		orm No c. E.704	d. None of the above
131.	To get the technical s to be prepared.	sanction of the compo	etent authority	estimate is
122		b. Detailed	c. Construction	d. None of the above
132.	a. State Govt.	b. Railway	c. None of the abov	e d. None of the above
133.	Minimum distance ce a) 4265mm			dditions to existing works. d. None of the above
134.		-		height above rail level for a be for Light overhead
	structure such as foo a) 4875 mm	t over bridges. b) 5870 mm	c) 6250 mm	d. None of the above
135.	Formation width for d	ouble line straight tra	ack Minimum width ir	n embankment d. None of the above
136.	Gauge on straight inca a) -5mm to +3mm	•	m radius shall be c) exact gauge	d. None of the above
137.		on either side of the	centre of track shall	height above rail level for a be for Heavy overhead
	a) 4875 mm	b) 5870 mm	c) 6250 mm	d. None of the above
138.	Minimum horizontal onew works from 1065			ure except a platform for
	a) 2135mm	b) 2360mm	c) 1905mm	d. None of the above
139.	Formation width on c a) 100 mm	urves increase due to	o extra ballast on ou c) 200 mm	tside of curves d. None of the above

а

140.	Clogging due to fine s a. Sodium hexame		the material used for ydrochloric acid	
141.	Data for Estimating R a. 5 lits/ per sqm	•		d. None of the above
	Minimum height abov		ay of 1370mm on eit	her side of centre track in
	a. 2465mm		c. 6250 mm	d. None of the above
143.	Quantity of water rec a. 3600 lit per car			g lines for BG c. 2800 lit per carriage
144.	Data for Estimating F a. 30 lit per head	•	•	d d. None of the above
145.	Absolute verticality is generally acceptable a. 20 m		oumps are not to be i	metres of boring is nstalled. d. None of the above
146.			low as possible; the	greatest suction-lift that
	may be expected at s a. 12m	b. 10m	c. 7m	d. None of the above
147.	The delivery pipe sha a. 2 m/s.	all be of such size that b. 2.5 m/s.	at the velocity of wate c. 3 m/s.	er is about d. None of the above
148.	Reinforced concrete pressures of	pipes are used in wa	ter supplies are class	sified as P2 with test
149.	_	_	_	d. None of the above eedof the test
	•	b. 3/4	c. ½	d. None of the above
150.	PSC competes econo a. 300	omically with steel for b. 500	r pipe diameters of _ c. 600	mm and above d. None of the above
151.	to the consumer		·	before delivery of water
152.	a. 15 to 30 Tanks used for the st			d. None of the above and cleaned at such
	intervals as specified	by the		
	a. ADEN	b. DEN	c. Sr.DEN	d. None of the above
153.			at can be supplied fro	om a properly designed
	distribution-main of 10 a. 36	b. 46	c. 56	d. None of the above

154. N	/linimum residual pre	ssures at ferrule	points for two storey bu	uilding is
	a. 7m	b. 12m	-	
155. C	Generally % a. 60	of the water supp <b>b. 80</b>	olied may be considered c. 90	d to reach the sewers d. None of the above
156. ∖	ertical separation fo a. 0.5	r water main to a b. 1	ny drain and sewer c.3	m d. None of the above
	is recovered a) EMD All instructions to the a) oral	<b>b) SD</b> e contractor is given	g bills of successful bidd c) CD ven by c) both a& b	der of contract
159.	Contractor shall con a) 7	nmence the work b) 3	within days after r	eceipt of letter of authority
160.		ok, pages to b) even	o be machine numbered c) all	d.
161.	Security deposit is _ a) 2 k			
162.	Maximum value of L a) 15 crores	•	PHOD is lakhs. c) 5 crores	
163.	Approved list of contr a) stores	actor is prepared	l in consultation with c) accounts	department
164.	the contract.	_	n by the officer the	ne authority who signed above
165.	Open tender is publi	shed atleast in _ b) 2		
166.	A tender which is su called tender a) Open r			nission but before opening is
167.	The amount of EMD a) 4000		akhs is Rs c) none of the above	
168.	The maximum value a) 25,000	of work order with b) 50,000	th in powers of DEN is c) 100,000	Rs
169.	For quotations, annu a) 1	ıal ceiling for Sr.[ b) 5	DEN is Rs lakh	าร

170	. Zonal contract is a) March	for the period f b) Januar		July		
171	. In case of Limited the approved list a) 5				nave to be inv	ited from
172.	Maximum LAP tha a) 180 days	at can be accur b) 240 day		y an employee c) 300 days.	e is	
173.	Parents can be inca) Privilege			s. c) Duty pass		
174.	SF.1 issued for a) Major penalty	b) Minor p	enalty	c) Suspension	n	
175.	Casual leaves eliç a) 8	gible to open lir b) 10	ne staff	c) 11		
176.	Number of privileg a) 1 Set	ge passes eligil b) 2 sets	ble for Gro	oup C & D star c) 3 Sets	ff after 5 years	s service.
177.	Number of privileg a) 4 Set	ge ticket order o b) 2 sets	-	railway staff c) 1 Sets		
178.	Number of days e a) 10	arn leave cred b) 15	ited per ar	nnum c) 30		
179.	Number of days L a) 10	HAP credited բ <b>b) 20</b>	oer annum	n c) 30		
180.	Validity of single jo a) 3 months		-	c) 1 month		
181.	When was the offi a) 1947 b	cial language a ) 1956		d) 1976		
182	. When the official a) 1947 b	language rules ) 1956		med d) 1976		
183.	As per OL policy a) A b				region	
	When is "Hindi Da th Feb b) 12th				d) 14th Sep	ot.
185.	According to offici a) Region A	• •			der which regi d) None	ons.

186. Which is only a) Andama c) Chandig	n & Nicobar	b) F	er regions B? Pondicheary aman & Diu	
187. The distance a) 100m		-	ary pillars for demarcation of land b d) 150m	oundary
sq.m i	n each individual	case	ealizes structures may be limited to	max of
a) 600	<b>b) 500</b> c)	400	a) 300	
	ensing bases for		exhibitions, malls, charnels etc. car l of months d) 3	ı be
	ensing of land for of the market val		shopping etc. can be permitted on l	licensing
	b) 25% c)		d) 20%	
191. Detailed estir a) Call tende	mation is prepared er b) to execute		) to obtain technical sanction	
b) after con c) While su	ure exceeds 25 % npletion of work bmitting CC III bill	of Agt. Value	e ely to exceed the provision there o	n
a) Exchequ	er revenue budge ler b) Re k b) d) nor	evenue Alloca	e important management tool ation Register	
194. If the radius o (a) 0.5	f a circular curve i (b) 0.4		gree for the curve is c) 0.75	
	is provided on cu n (b) superelevat		ce the centrifugal force. ne	
196. Form No for N a. S 1302			c. S 1315	
197. Stock verification				
198. Challans are p <b>a. ST47</b>	orepared with forn b. ST 46		ST 57	
199. No of form for a. S1302		С	s. S 1315	

is

200.	Stock indent is prepa A) 2	ared in b) 6 c		opies.		
201.	The accounts stock va) 1	verification of P.W. b) 2		are conduc	eted once in	years
202.	DMTR is used to acc a. receipts only	count of stores b. issues only	 c. I	both a& b		
	Reserve price is fixed a. PCE	d to sell the scrap <b>b. COS</b>				
204.	Stock sheets are pre a. 1		copies after	stock verific	cation.	
205.	Ledger postings are a. <b>DBR / DBI</b> b.		c. Challan			
206.	RMC note is used fo a) Rly b)					
207.	Dead stores are the a. 12 months <b>b</b>				onths	
	Station classified as annual earning a. >Rs.3 crores		•	•		
	Station classified as annual earning a. >Rs.3 crores		•			
	Station classified as annual earning a. >Rs.50 crores		•	_		
211.	Number of tapes in ea. 21	each PF for B cate <b>b. 12</b>	gory station b		inimum essential d. None of the at	
212.	Number of seats in e	ach PF for A cate	gory station b	pased on m	inimum essential	amenities.
•	a. 100	b. 75	c. 50	d. Non	e of the above	
213.	Number of booking of a. 12	counters for B cate b. 10	gory station b		inimum essential e of the above	amenities
214.	Number of urinals fo	r A1 category stati				S.

215.	Number of latrines to a. 12	r D category station b. 10	based on min c. 4	imum essential amenities. d. None of the above
216.	Extra for lead more that a. 10m <sup>3</sup> b. per			d. None of the above
217.	Deduction of voids fo a. 5%	r supply of stone me <b>b. 8%</b>	tal 200 mm a c. 20%	nd above is d. None of the above
218.	Loading of materials a. 30m	like stone, jelly, sand b. 50m		initial lead upto m free. d. None of the above
219.	Measurement of wind a. 0	dow, ventilator should <b>b. 0.5</b>		cm from overall size. d. None of the above
220.	The weight of aluminia. +/- 5%		•	as indicated in the drawing. d. None of the above
221.	The unit of payment f a. per m dia			perimeter per m of depth
222.	Data for estimating real a. 30 litres	equirement of water t <b>b. 45 litres</b>	•	nead per day d. None of the above
223.	Data for estimating rea. 10 litres	equirement of water f <b>b.</b> 25 litres		washing per m <sup>2</sup> d. None of the above
224.	Data for estimating re of BG coach a. 2600 litres	equirement of water f		carriage on washing line Itres d. None of the above
225.	Clogging of well due a. Hydrochloric ac		emoved by us lorine	sing c. Sodium hexametaphosphate
226.	The degree of curve a. 1750/D	is defined as <b>b. 1750/R</b>	c. R/1750	d. None of the above
227.	The radius of 4° curve a. 1750m	e is b. 875m	c. 437.5m	d. None of the above
228.	The inspection of sev a. Once in 3 months			c. Once in a year
229.	The licence fee for la a. 6%	nd used to lay privat b. 10%	e siding c. 20%	d. None of the above
230.	The minimum licence a. Rs.500	fee should be b. Rs.1000	c. Rs.2000	d. None of the above

231.	a. 10 years	of lease for Kendriy b. 30 years	• •	nay be give upto d. None of the above
232.	The inspection interventa. 3 months	al of encroachment bb. 6 months	•	
233.	Encroachment by our a. Category-A	tsider removal of whi b. Category-B		ction under PPE Act. C d. None of the above
234.	Minimum clearance of a. 44mm	of check rails for a cu b. 51mm	ırve c. 57mm	d. None of the above
235.	Maximum gradient in special rules enforce a. 1 in 260		nts for new wo	y devices are adopted and/orks d. None of the above
236.	Maximum height abo a. 760mm	ve rail level for good b. 840mm	•	d. None of the above
237.	Banner flag shall be pa. 500m	orovided atm <b>b. 600m</b>	n from works s c. 1200m	
238.	Detonators shall be pa. 600m	provided at b. 100m		orks spot for BG d. None of the above
239.	Termination board fo a. 600m	r Goods train shall b b. 750m		for BG longest goods train
240.	The minimum radius a. 4000m	of vertical curve for l <b>b. 3000m</b>	B route shall b c. 2500m	e d. None of the above
241.	The desirable minimua. 30m	um length of straight <b>b. 50m</b>	between reve c. 100m	rse curve for BG shall be d. None of the above
242.	Compensation for cu a. 0.03% per degre	<u> </u>		c. a. 0.05% per degree
243.	Estimates need not to a. Rs.50,000	b be prepared for chab. b. Rs.100,000	argeable unde c. Rs.200,00	
244.	_	to contractor, if the <b>b. Rs.1 Crore</b>		ue of tender more than e d. None of the above
245.	For measurement of a. 10%	earth work cross sed	ction test chec c. 100%	-
246.	The life of detonator i	syears	c 12	d None of the above

247. (1) The steepest (	gradient that exists in	a section is called a	s Gradient.
(a) Pusher	(b ) Momentum	(c) Ruling.	d. None of the above
248. When the algebra percent a vertical of		the grades is equal	to or more than
(a) 0.4%	(b) 0.04 %	(c) 4%.	d. None of the above
249. Minimum Free Bo a) 1 m	ard required in a brido b) 1.20 m	ge is c) 600 mm	d. None of the above
250. Sub structure of a a) Abutment	_		d) Wing and Return walls
251. Wing walls and re a) earth on appi	•		ches d. None of the above
252. In grade of concre a) Max.			d. None of the above
253. Weep holes are p a) piers		c) foundat	tion d. None of the above
254. The pressure on s a) more than			f the soil. d. None of the above
255 soil h a) Hard moorum			il d. None of the above
256. The clear cover for a) 20 mm		ment in buildings is c) 50 mm d.	None of the above
II. Write short answer	s for the following:		
2. What is the qua 3. What are the tes 4. What are the dif 5. What is EMD ar 6. What is SD and 7. What is perform 8. When delay is of 9. Who has to arra 10. Give two reasor 11. When repayment 12. Give specification	how it is recovered? ance guaranty and ex ue to contractor how onge for water & powers for determination of the of Security Deposit	used in RCC? or bricks? and their use? splain? extension of time is or for construction wo	given? orks? efault of contractor.

- 14. Give specification for brick jelly.
- 15. Give specification for painting old wood work.
- 16. Give specification for island formation.
- 17. Define Void ratio and Porosity.
- 18. Define OMC and MDD.
- 19. Give four physical standards of portable drinking water.
- 20. Give four chemical standards of portable drinking water.
- 21. Define super chlorination.
- 22. Define secondary chlorination.
- 23. Define BOD
- 24. Give the soil suitable for forming bank.
- 25. Give different types of roller used in forming new bank.
- 26. Give four types of soil as per IS classification.
- 27. Give four items up to what extent no deduction should be done.
- 28. Define vertical curve and its limits for BG & MG.
- 29. Define transition curve and its advantages.
- 30. What are the limits of work order issued by various officers?
- 31. What are the different types of contract bills?
- 32. List out any four numbers of inspection schedule of SE/Works.
- 33. Give the Proforma for submitting progress report.
- 34. Give the points to be considered in orientation of buildings while planning of Railway staff quarters.
- 35. Give the points to be considered while planning for new staff quarters.
- 36. Give the details of norms for the following fitments in an office buildings
  - Wash Basins
  - Drinking water fountains
- 37. Give the details of norms for the following fitments in a factory.
  - Washing tap with drinking arrangements
  - Ambulation taps
- 38. Plan area including staircase circulation and sleeping of balcony for type III
- 39. What is meant by railway sanitation committee?
- 40. Give recommended heights for BG passenger platform.
- 41. List out any four facilities to be provided for physically challenged persons?
- 42. How to improve the yield of open well in sandy soil.
- 43. List out any four types of pumps used in railways.
- 44. List out the any four type of sewer lines used.
- 45. Give the Proforma for survey of shriveling tree.
- 46. List out the categories of encroachments and explain briefly.
- 47. What are the steps to control unauthorized use of railway land.
- 48. What is the period of intervals of stock verification for different items?
- 49. What is stock sheet?
- 50. Minimum basic amenities at halt station.
- 51. Yardstick for provision of passenger amenities at D class station.
- 52. What are the short term facilities to be provided for physically challenged persons?
- 53. What are the long term facilities to be provided for physically challenged persons?
- 54. Give four places of large scale covering of PF.

## III. Essay type questions

- 1. Write specification for supply of the following materials.
  - i) Bricks
  - ii) Fine aggregate (Sand)
  - iii) Course aggregate (Blue metal)
- 2. What are the test to be conducted for the following materials and give the accepted range.
  - i) Cement
  - ii) Steel
  - iii) Course aggregate
- 3. Explain about different situations to give extension of time and explain each.
- 4. Give short notes on any three:
  - i) Liquidate damages,
  - ii) Works during night,
  - iii) Performance guaranty
- 5. Write the specification for the following works any two:
  - i) Brick work
  - ii) RR Masonry
  - iii) CR Masonry
- 6. Write the specification for the following
  - i) Plastering
  - ii) Concrete
  - iii) Pointing
- 7. Write the specification for the following
  - i) WBM road
  - ii) Bituminous road
  - iii) Cement concrete road
- 8. Write the specification for the following
  - i) Protective works
  - ii) AC sheet roofing
  - iii) Weathering course
- 9. Write the specification for the following
  - i) Paining
  - ii) White washing and colour washing
  - iii) Distempering and water proof cement painting
- 10. Write short notes on the following:
  - i) Liquid limit
  - ii) Plastic limit
  - iii) Shrinkage limit
- 11. Write short answer on the following while using BSR items:
  - i) What is the free lead and lifts in earth work chapter?
  - ii) Size of stock brick and country brick.
  - iii) What is the % of deduction to be made for stacks of soling, pitching & RR stone?
  - iv) Who has to supply the steel and cement for BSR works items?
  - v) Which grade pipes and specials used for GI and CI pipe line works?
- 12. Write short notes on the following:
  - i) OMC & MDD
  - ii) Compaction
  - iii) Blanketing

- 13. How will you determine the safe bearing capacity of soil and explain?
- 14.a) How will you collect water sample for analysis?
  - b) How will you improve the yield in open well?
- 15.a) What is the need of doing chlorination?
  - b) How to assess the chlorine demand?
  - c) What is meant by break point chlorination?
  - d) What is meant by residual chlorine and what is recommended limits?
- 16. Describe the different materials used for chlorination and explain.
- 17. Draw a neat sketch of GLR and OHT with full details in parts.
- 18. Design a septic tank for a colony of 200 staff quarters and draw a neat sketch?
- 19. Write short notes on the following:
  - a) Manhole
  - b) Ventilating column
  - c) Self cleaning velocity
- 20. Write short notes on the following:
  - a) Dispersion trench
  - b) Soak pit
  - c) Bio-latrine
- 21. What are the quality controls to be adopted for construction of new bank?
- 22. Estimate the material and labour required for roof slab 6m x 6m size 15 cm thick by assuming necessary reinforcement.
- 23. Design a circular curve with transition curve to the following data:
  - i) Degree of curve is 2°
  - ii) Chainage of apex 1500m
  - iii) Assume all other data required
- 24. How will you set the circular curve by Rankin's method?
- 25. Prepare a work order requisition for the following items with contractor % of -8%.
  - a) Supply of stock bricks 10,000 Nos (rate Rs.3600 per 1000 No)
  - b) Supply of sand 100 m<sup>3</sup> (rate Rs.883 per m<sup>3</sup>)
  - c) Supply of blue metal 20mm size 10 m<sup>3</sup> (rate Rs.826 per m<sup>3</sup>)
- 26. Write short notes on the following
  - i) Basic amenities in staff quarters.
  - ii) Petty Repair Book.
  - iii) Inspection register for building
- 27. Write short notes on the following
  - i) Colony committee
  - ii) Service Improvements Group
  - iii) Sanitation Committees
- 28. What is the procedure for eviction of unauthorized occupants of Railway land?
- 29. Write short notes on the following.
  - a) Lease and License
  - b) Assisted siding and Private siding
- 30. How will you procure stocked and non-stocked items?
- 31. What is the procedure for conducting stock verification in SE/Works office?
- 32. Explain about stock sheets and returns.
- 33. How will you dispose released and surplus materials?
- 34. How will you protect the railway line during blasting of hard rock adjacent to track?
- 35. How will you protect the railway track for construction of ROB.

- 36. What are the different types of survey to be conducted for new line and explain in detailed?
- 37. How will you categories of line on BG in Indian Railway and briefly explain each?
- 38. What are the different types of estimates and explain any three in detailed?
- 39. Write short notes on the following:
  - a) Preliminary works programme
  - b) List of approved works
  - c) Material modification
- 40. Write short notes on the following:
  - a) Urgency certificate
  - b) EMD and SD
  - c) Liquidity damages
- 41. Write short notes on the following:
  - a) Single tender and open tender
  - b) Limited and special limited tender
  - c) Quotation and work order
- 42. What are all the essential duties of Section Engineer/Works?
- 43. What are the points to be considered while planning of Railway Staff Colonies?
- 44. Write short notes on the following any three:
  - a) S.M Book
  - b) M.Book
- 45. Write short notes on the following any three:
  - a) Petty repair book
  - b) Cleaning of storage water tanks.
- 46.a) What are all the different pipe materials used for conveyance of water from source?
  - b) How will you maintain a sewerage system?
- 47. What are all the matters to be inspected by sanitation committees?
- 48.a) How will you lay and joint the sewer pipes?
  - b) Self cleansing Velocity
- 49. What are the precautions to be observed during blasting?
- 50.a) Write specification for storage of cement.
  - b) What are the quality controls to be adopted for cement concrete?
- 51. Write Hindi equivalent for the following:
  - (a) Discuss(b) Division(c) Track Machine(d) Note(e) Casual Leave(f) Urgent
  - (g) Grant (h) Dearness Allowance (i) Traveling Allowance (j) House Rent Allowance
- 52. Write Hindi words equivalent for the following
  - (a) Decision (b) Indefinite Dispute (d) Consistent (c) (e) Why delay? (f) Please discuss May be filed **Approved** (g) (h) I agree Sanctioned (i) (j)