

दक्षिण पूर्व मध्य रेलवे



South East Central Railway

मुख्यालय, कार्मिक विभाग, प्रथम तल, महाप्रबंधक कार्यालय, बिलासपुर (छ. ग.) 495004

HEADQUARTER, PERSONNEL DEPARTMENT, 1st FLOOR, GM's OFFICE, BILASPUR (C.G.) 495004

No. P-HQ/CON/452/1/E/197

Date 09.08.2021

To All Concerned

Sub:-Selection for promotion to Group "B" post of ADEN/AXEN in scale ₹ 9300-34800/-+GP ₹ 4800/- (VI th PC)/ Pay Matrix Level-8 (VII th PC) against 30% LDCE quota of Civil Engineering department in SECR

Ref: (1) This Office Confidential letter No. P-HQ/CON/452/1/E/178 Dt 22.07.2021

(2) This Office letter No. P-HQ/RUL/105/2 Dated 24.05.2021.

(3) PCE/SECR's letter No. PCE/SECR/EO/PS/AEN/AXEN 30% selection/66 dated 07.08.2021

In references to (2&3) above Question Paper and Answer Keys of written examination conducted on 07.08.2021 for formation a panel of selection to the Group-'B' post of AEN/AXEN against 30% LDCE quota is hereby published to all concerned. If any discrepancies may be traced out, in the above answer keys, it may please be intimated to this office within 10 days, positively w.e.f. the date of issue of this letter.

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The Question Paper and Answer Keys of the above selection are also available in S E C Railway web site. http://www.secr.indian railways.gov.in.Recruitment-HO

DA: As above.

(Neeraj Anand)
Dy. Chief Personnel Officer (GAZ)

for Principal Chief Personnel Officer

Copy to:

1.All PHODs/CHODs of SECR. 2. DRM/BSP, R & NGP

3.CAO/Con/Bilaspur, PCPO /SER & Eco Rly/BBS.

for Principal Chief Personnel Officer

Answer Key

1	A
2	A
	B
3	B
5	AADCBABACDSIAADACBCDBC
6	H
7	D
8	C
9	В
10	A
11	& DSI
12	A
13	D
14	В
15	D
16	A
17	A
18	C
19	D
20	A
21	D
22	A
23	C
24	B
25	C
26	D
27	В
28	U
29	A
30	D
31	D
33	D
34	8
35	8 D C
36	C
37	D

38	A
39	A
40	A
41	8
42	8
43	A
44	D
45	A
46	C
47	D
48	A
49	C
50	D
51	D
52	D D
53	C
54	A
55	A
56	A
57	D
58	В
59	
60	B
61	В
62	A
63	C
64	В
65	A
66	8
67	В
68	A
69	, A
70	A
71	D C
72	
73	D
74	C

75	C
76	D
77	D
78	A
79	D
80	D
81	D
82	D
83	В
84	D
85	A
86	D
87	D
88	D
89	В
90	B
91	D
92	8
93	A
94	D
95	C
96	В
97	D
98	A
99	В
100	D
101	В
102	C
103	C
104	D
105	A
106	D
107	7
108	D
110	D
110	C

Pre-qualifying Paper for AEN/AXEN against 30% LDCE

Total Duration: 2 Hrs.

Total Marks: 100

Qualifying Marks: 75

Each question carries 1 mark

In Section A,all questions are compulsory.

In Section B, atttempt any 30 questions

In Section C,all questions are compulsory

There shall be negative marking for incorrect answers. One-third of the marks allotted for each question will be deducted for every wrong answer.

No corrections of any type (cutting, overwriting, scoring off a ticked answer, ticking another answer, erasing, modifying the answer in any way) will be permitted.

Zero marks will be awarded in such cases of corrections.

Every question has four options numbered as A, B, C, D (in capital letters). Answers should invariably be given in Capital Letters.

Choose correct option:

SECTION A

		SECTION A					
1.	Fas	Faster wear of inner rail in a curved track may be due to:					
	Α	Cant excess	В	Cant deficiency			
	С	Equilibrium cant	D	None of the above			
2.	LH	LH &RH tongue rail can be interchanged in case of:					
	Α	Straight switch	В	Curved switch			
	С	None	D	A&B			
3.	In a	a highly canted track, a wagon has overturn	ed in	side of the curve. What may be cause:			
	Α	Wind pressure towards outside of the	В	Very low speed of the wagon			
		curve					
	С	High speed	D	A&B			
4.	Ası	mmetrical rail is used in the manufacturing	of:				
	A	Straight switch	В	Curved switch			
	C	Thick web switch	С	B&C			
5.	At	urnout is taken from outside of a curve. CD	is 75	mm, permissible negative cant on turnout is			
٦.	42 mm. Then equilibrium cant on main line for maximum permissible speed:						
	A	117 mm	В	33 mm			
	C	75 mm	D	150 mm			
6.	In	which type more warning signs will be displ	ayed	before failure:			
0.	A	Under reinforced	В	Balanced			
	C	Over reinforced	С	Same signs in all the above			
7.		In case of cracking of paint film, the possible remedy would be:					
7.	A	Extra putty	В	Thicker coat of paint			
	C	A&B	D	None			
8.		r concrete surface which paint is more suita	ble				
٥.	A	Oil paint	В	Enamel paint			
	C	Rubber based paint	D	Aluminium paint			
_	_	oridge is of 2×5 m spans then it is:					
9.		1	В	Minor			
	A	Major	D	None			
	C	Important	_				
10			Sildi	low depth then what type of foundation to be			
	1	rovided :	T p	Pile foundation			
	Α		В				
1	C	Well foundation	D	Raft foundation			

11	1	beam fixed at both ends SF will be minimu	m at	(With point load at the centre)			
11.	A	Both ends	m at	1/4 of span			
	C	A&B	D	None			
12.	What is the common unit of measurement of plastering :						
ız.	A	sq m	В	cube m			
	C	m	D	All the above			
13.	-	ser beam is used by which survey instrume	_	All the above			
	A	Compass	В	Dumpy level			
	C	Theodolite	D	None			
14.	-	tellite unit in tamping machine is placed on		None			
	Α	Satellite	В	Independent underframe			
	С	Ground	D	None			
15.	1			None			
		hich track machine requires water sprinkli DTS					
	C		В	FRM			
6.	+	RBMV	D	RGM			
.0.	in	a route of 130 kmph, acceleration peaks ex	ceed	ling which value will be considered in OMS			
		cording:					
	C	0.15 g	В	0.2g			
7.	+	0.25g	D	0.1g			
. / .		erhauling of track means:					
	C	Screening of ballast	В	Greasing of rail and complete fittings			
8.	-	complete track renewal	D	Reconditioning of tools			
١٥.		hich is not connected with Level Crossing:		r			
	A	Signal	В	Height gauge			
0	C Guard rail D Lifting barrier						
9.		nich is not connected with Patrolling of trac	1				
	A C	Vulnerable location	В	GPS tracker			
0		Patrol chart	D	None			
0.	Which is not connected with Well foundation:						
	Α	Loss of camber	В	Eccentric dredging			
	С	pneumatic sinking	D	A&B			
1.	Which is not a method of launching of girder;						
	Α	Rail cluster method	В	Dip lorry method			
	С	Side slew method	D	None			
2.	If reserve material is to be stacked for use in bridge; then it should be stacked close to bridge						
	and :						
	Α	Above the HFL	В	Above the DL			
	C	Below the HFL	D	None			
,							
3.	ır a	bridge component requires major repair					
- 1	Α	1	В	2			
	С	3	D	4			
4.	Wh	ich is generally not done in Preliminary Su	ırvey				
	Α	Soil survey	В	Fully staking of alignment			
-	C	Estimation of cost	D	A&C			
	,	of project					
-	\A/b	ich is not correct :		1			
5.			D	Improved CEL-1-11-11			
	Α	Level crossing should not fall within	В	Improved SEJ should not be located on			
		the breathing length of LWR	-	transition of curve.			
	C	Improved SEJ should not be located on	D	B&C			
		curves sharper than 0.5 degree.					

26.	W	hich does not contribute to leakage in tunn	el:	1			
	A	Underground stream	В	Construction joint			
	C	A&B	D	none			
27.	W	hile giving general lift by machine, ramp ou	pro	vided is:			
	A	1: 500	В	1: 1000			
	C	1: 1500	D	1:2000			
28.							
	Α	Force/ Area	В	Strain × modulus of rigidity			
	C	Stress x modulus of elasticity	D	A&C			
29.	W	hat will be the axial load carrying capacity o	f a R	CC column in N if allowable compressive			
	str	ress in concrete is 6 N/ mm sq and in steel	130	/ mm sq. The area of steel is 20 sq mm			
		nile area of concrete is 1000 sq mm:					
	Α	8600	В	130120			
	C	20780	D	136			
30.	W	hich is not a method of development of Tul	ewe	III:			
	Α	Pumping	В	Compressed air			
	C	Jetting	D	None			
31.	In	water purification, which is not connected	with	sedimentation :			
	Α	Coagulants	В	Baffle wall			
	С	Detention period	D	None			
32.	W	hich is not connected with treatment of wa					
	Α	Disinfection	В	Activated carbon			
	C	Aeration	D				
33.	-	e dead zone of a reservoir is for:	LD	None			
<i>JJ</i> .	A	Water for power	В	Waterfeeten			
	C	Sand and silt	D	Water for irrigation None			
34.	In water supply distribution system, summits are the points of :						
			_				
	A	High pressure	В	Low pressure			
35.	C	Equal pressure	D	None			
55.	W	hich is not connected with ventilation of se	wers	5:			
	Α	Manhole with grating	В	Designing sewer to run half			
	C	Unobstructed outlet	D	None			
36.	M	anholes in sewer are provided for :		•			
	Α	Inspection	В	Joining sewer			
	C	A&B	D	None			
37.	W	nich is not correct for inverted siphon:		None			
	Α		Т.				
		Under pressure less than atmospheric pressure	В	Flow line above the hydraulic gradient			
	С		1				
88.	-	Depressed sewer	D	A&B			
, o.	101	removal of oily substance from sewage w	hich	is used:			
	Α	Skimming tank	В	Grit chambers			
	С	Detritus tanks	D	None			
9.	W	nich process is similar to activated sludge	rocc	os of treatment of courses			
	Α	Oxidation pond	100				
	C	A&B	В	Trickling filter			
0.	In o		D	None			
		septic tank what takes place:					
	A	Sedimentation	В	Aerobic digestion			
	C	A&B	D	- I - I - I - I - I - I - I - I - I - I			

Section -B

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41		Whic	ch is defined in Rule 10 of the Official L	angua	ge Act 1976 :		
	- 1 -		proficiency	В	working knowledge		
	-	-	A& B	D	none		
		1		in ≥q	ion "A"		
42			er official language act which is not	В	Punjab		
	1	A	Himanchal	-			
		C	Andman Nikobar	D	all		
4	3.	As p	per official language act which is not	in reg	ion "B"		
			Andman Nikobar	В	Daman & Diu		
		c	Chandigarh	D	all		
4	4.			luced a	nd issued simultaneously in both Hindi and		
			lish as per Official Language Act Section				
	+	A	tender form	B			
	+	c		D	agreement		
-	-		Tender Notice	U	none		
1 4	5.		en is Hindi Day celebrated :				
		Α	14 September	В	24 July		
		С	24 September	D	24 March		
1	16.	As	per official language act which is not	in reg	ion "B"		
		Α	Gujrat	В	Punjab		
		С	Rajsthan	D	None		
	47.	As	per official language act which is no	t in re	gion "A"		
		Α	Bihar	В	Jharkhand		
		C	Uttarakhand	D	none		
	48.	W	hich Ministry takes important decision re	garding	g official language :		
		Α	Home Affairs	В	Railway		
1	1-	C	Human Resource	D	None		
	49.	Who was the first chairman of the committee which was formed on the recommendation of					
		th	e official language commission :				
_		Α	SRI Bal Kher	В	Sri L N Mishra		
1		C	Sri Govind Ballabh Pant	D	none		
	50.		s per official language act which is not	1			
		A		В	Odisha		
	F 1	C	Kerla	D	None		
	51	. C	OVAXIN has been developed by Oxford university	В	CEDURAL ATTACAMENT		
		c.		B	SERUM Institute Of India		
	52	-	eepika kumari is associated with which ev	_	none		
		A		В	Hockey		
		C		D	Archery		
	53	. A	llahabad bank is merged with which anch	or bank			
		Α	. SBI	B.	Union bank of India		
		C	and the state of t	D.	none		
	54		Which is known as Prayag of Chhattisgarh:				
			A. Rajim	B.	Mainpat		
	F 1	_	C. Amarkantak Which IPS officer of CG received Kirti Chak	D.	none		
	55		Which IPS officer of CG received Kirti Chak A. Vinod kumar Chaubey		With C. I		
		-	C. Surendra Dubey	B.	Kishore Sahu		
				D.	none		

56.	Whic	h is not a PSU of IR:			`		
		RLDA	B.	CC	ONCOR		
	C. 1	Konkan Railway	D.	no	one		
7.		h is associated with Chhattisgarh	1				
,,.		Raut Nacha	В.	Pa	andwani		
-	-	Ghumar	D.	-	&B		
-			U.		XV		
58.		m Warriors" is written by:	В.	N	arendra Modi		
}	-	Dr Kalam	D.	-	one		
-0		Meenakshi Lekhi		_			
59.		n Bridging System,in army ,has be					
	-	Bridge & Roof	В.	-	&T		
	C.	Bridge Track& Tower	D.	n	one		
60.	Who	is not the recipient of Bharat Ra	tna :				
	A.	Rajiv Gandhi	В.	N	Morarji Desai		
	C.	A P J Abdul kalam	D.	n	one		
61.	Ajar	nta caves are in :			*		
	A.	Bombay	B.	A	urangabad		
	C.	Kashmir	D.	n	one		
62.	Wh	ich is the border name of India-Pa	akistan :				
	Α.	Radcliffe Line	В.	1	Macmahon line		
	C.	Hindenburg line	D.	+	none		
63.			nd Vice Presi	den	it are vacant, then who will discharge		
05.							
	-	ies of the President PM	В.	5	peaker		
	A.	Chief justice of India	D.	+	none		
64.		nich satellite has not been launche					
04.	Α.	GSAT 30	В.	1	Delta 3920		
	C.	Chandrayan 2	D.	r	none		
65.		nich one is known as Lower House	:				
05.	Α.	Lok sabha	В.	1	Rajya sabha		
	C.	Secretariat	D.	-	none		
66		OG has been developed by whom	:				
00	A.	RDSO	В.		DRDO		
	C.	ISRO	D.		CIPLA		
67		hich is kmown as Shimla of Chhat	tisgarh :				
07	Α.	Amarkantak	B.	.	Mainpat		
	C.	Achanakmar	D		None		
68		ira Bai Chanu is connected with w	hich sports e	ver	nt :		
,,,	Α.		В		Boxing		
	C.		D		None		
69	_	hat is the normal term of Lok Sab	ha				
	A.		В		4 years		
	C.	1	D	_	None		
7	0. V	/hich is known as Orange City:		•			
	A		В	. 1	Jaipur		
	C			-	None		
	71. Olympic games are being held this year at :						
7	1. 0	Nympic games are being held this	vear at :				
7		Dlympic games are being held this and the second se		3.	Beijing		

72.	Wh	ich will have higher download speed :				
	A.	36	B.	4G		
1	C.	5G	D.	All same		
73.	"La	avni " is famous form of :				
	A.	Singing	B.	Painting		
	C.	Instrumental	D.	None		
74.	Wh	ich is connected with train reservation:				
	A.	PIN	B.	POR		
ĺ	C.	PNR	D.	None		
75.	Wh	nich is not a source of clean energy:				
	A.	Solar panel	B.	Wind mill		
	C.	Thermal power plant	D.	None		
76.	Which is the Head Quarter of EC Railway :					
	Α	Mumbai	B.	Gorakhpur		
	C.	Jaipur	D.	None		
77.	Which is not a tax in India:					
	A.	Gift tax	B.	Income tax		
	C.	Capital gain tax	D.	None		
78.	Th	e maximum earning of SEC Railway comes	from	:		
	A.	Freight / Goods transportation	B.	Passanger		
	C.	Parcel	D.	Lease		
79.	Who is not associated with Indian Railway an		y tim	e:		
	A.	P T Usha	B.	Dutee Chand		
	C.	Sakshi Malik	D.	None		
80.	W	ho has not been the Railway Minister				
	A.	Lal Bahadur Shastri	B.	Jagjivan Ram		
	C.	Nitish Kumar	D.	None		

Section -C

81.	In financial appraisal of a project which method takes in to account time value of money					
	A.	Accounting rate of return method	B.	DCF method		
	C.	NFV method	D.	B&C		
82.	Which is not ordinary working expenses					
	A.	General superintendence	B.	Repairs to way and works		
	C.	Retirement benefits	D.	None		
83.	Wh	ich PH deals with bridge works				
	A.	31	B.	32		
	C.	33	D.	36		
84.	Which is not a part of coaching earning					
	A.	Earning from II AC coach	B.	Parcel earning		
	C.	Earning from IAC coach	D.	none		
85.	If penalty of "reduction in pay " has been imposed, then the employee will :					
	A.	Not loose seniority	B.	loose seniority		
	C.	Loose seniority but after some time will regain it.	D.	None		
86.	Which is not a penalty as per DA rules					
	A.	Suspension	B.	Censure		
	C.	Withholding of increment on failure in departmental examination.	D.	A&C		

	A.	Introduction of any station				
7.	Whi	ch is not material modification:	D.	None		
	C.	10	B.	1000		
	Α.	100 RS	, nov	w much will be spent :		
6.	If Op	perating Ratio is 100 then, to earn 1000 Rs	D.	none		
		GCC over Special conditions of contract Letter of award over GCC	В.	Special conditions of contract over Letter o Award		
5.	In case of contradictions in Letter of award, Special conditions of contract & GCC, which w					
		Casual leave normally cannot be decombined with LAP	D.	None		
		Increment next above the efficiency bar shall ordinarily be drawn unless withheld.	В.	30% of vacancies for Group B posts in civil engineering department are filled through competitive exam limited to departmental candidates.		
4.		ch is incorrect :				
		their past service is treated as continuous with that in the alternative post				
	C.	some other post After absorption in alternative post ,	D.	alternative employment in the same unit none		
	Α.	They are reduced in rank and shifted to	B.	It is tried by Railway administration to offer		
3.	Wh	ich is incorrect for physically de categoris				
	C.	Standard rent is periodically revised	D.	none		
		administration then rent to be paid will be rent for the quarter for which the employee is entitled		to provide accommodation to all employees.		
92.	A.	If superior quarter is provided by	В.	It is mandatory for Railway Administration		
		private siding	J.	Hone		
	A.	Rest house Registration fee for construction of	D.	none		
71.	-		B.	Quarter		
91.		discussed				
	A.	At Railway Board level, it is dealt by federation. Individual transfer case is generally not	D.	between Administration and all classes of non - gazetted and gazetted officials.		
90.			В.	The object is to maintain good relation		
90.	-	hich is not correct in connection with PNM		Heine		
	A.	7 days notice 48 hrs notice	D.	None		
89.			B.	Risk and cost tender		
00	٥.	per the new GCC which is not relevant in o		of termination of contract :		
	A.	During study leave A&B	D.	None		
88.			В.	During joining time		
••	-	employee is given. A is not admissible:		, v		
	C.	1	D.	Aac		
		It can be done by reviewing authority	B.	It can be done by appellate authority A&C		

			5 T	none	
	C.	A&B	D.	Hone	
98.	Wh	What is the Plan Head for Gauge Conversion:			
50.	A.	14	В.	13	
	C.	12	D.	15	
99.		What is the Plan Head for New Line:			
99.		10	B.	11	
	Α.		D.	None	
100	C.	What is the Plan Head for Traffic Facility works:			
100.			B.	31	
	Α.	30	D.	None	
	C.	32	v wo	rks:	
101.		hat is the Plan Head for Passanger Amenit	В.	53	
	Α.	51	D.	57	
	C.	C. 55			
102.	W	hich is connected with Pension :	D	Commutation	
	A.	, ,	B.	None	
	C.		D.		
103.	W	Which is connected with Transfer travelling allowance :			
	A.	CTG	В.	Free admissible pass	
	C.	A&B	D.	None	
104.	In	In which condition special pass is not issued :			
	A.	Medical ground	B.	Sports ground	
	C.	A&B	D.	None	
105	. w	Which leave can be encashed:			
	A.	LAP	B.	CL	
	C.	A&B	D.	None	
106.	w	Which is not connected with Minimum Wage Act :			
	A.	Minimum wages	B.	Normal working hours	
	C.	Weekly rest	D.	None	
107.	W	Which is connected with Wokmen's Compensation Act :			
	A.	Ocuupational disease	B.	Loss of earning	
	C.	A&B	D	None	
108	R	Repairs and Maintenance of Permanent Way and Works are classified in which Absract head:			
	A.	G	B.	Н	
	C.	J	D.	None	
109.	W	Which is not connected with PME :			
	A.	A1	В.	A2	
	C.	A3	D.	None	
110.	-		U.	None	
	Α	Transfer of fund from one work to another is done through: A. Revised estimate R. Completion estimate			
	C.	Reappropriation 4	B.	Completion estimate	
			D.	None	