

Recruitment Section % CGM Telecom, BSNL,TS Circle, Room No.411, Door Sanchar Bhavan, Nampally station road ,Hyderabad-1 **Tel.No.23203244.**



Lr. No. TT/RE/32-12/2016/Conf/ 50

Dated at HD the 21-08-2017

То

- 1. All SSA Heads of Telangana Telecom Circle
- 2. All SSA Heads of A.P. Telecom Circle
- 3. All Candidates/ Recognized unions

Sub: Provisional answer key of LDCE for the promotion to the cadre of TT (Erst while TM) for the RY- 2016 held on 20.08.2017- Reg

The Provisional answer key in respect of LDCE for the promotion to the cadre of Telecom Technician (Erstwhile TM) for the RY- 2016 held on 20.08.2017 is herewith enclosed alongwith the Question paper.

Any discrepancy in the answer key may be brought to the notice of undersigned by 28.08.2017, preferably through their Unions / Associations. No such representation shall be entertained after due date i.e 28.08.2017.

Encl: As above

Asst.General Manager (R&E)
% CGMT, Telangana Circle,
Abids, Hyderabad -1

NSWERS

PROVISIONAL ANSWER KET IN RESPECT OF LDCE FOR TT HELD ON RO-08-ROIT.

Section 1

- 1. Mathematics.
- 1.D, 2. B, 3. B, 4.A; 5.D, 6.C, 7.A, 8.C, 9.D, 10. D, 11.D, 12.A, 13.B, 14. D, 15. A, 16. D, 17. B, 18. A, 19. B, 20. C, 21. A, 22. A, 23. A, 24. A, 25. A.
- 2. General Science
- 1.A, 2.C, 3.D, 4.A, 5.D, 6.D, 7.C, 8.C, 9.C, 10.B, 11.C, 12.A, 13.C, 14.B, 15.A, 16.B, 17.A, 18.A, 19.A, 20.B, 21.C, 22.B, 23.B, 24.B, 25.C.
- 3. Section 2

Departmental Practices

1. A, 2. B, 3. A, 4. A, 5. C, 6.A, 7.A, 8.A, 9.A, 10. A, 11. A, 12. B, 13. A, 14. D, 15. D, 16. C, 17. B, 18. B, 19. A, 20. A, 21. A, 22. D, 23. C, 24. C, 25. A, 26. B, 27. C, 28. A, 29. A, 30. A, 31. A, 32. A, 33. B, 34. A, 35. C, 36. C, 37. A, 38. B, 39. C, 40. B, 41. B, 42. B, 43. A, 44. A, 45. A, 46. D, 47. B, 48. A, 49. B, 50. A

सहायक महाप्रबंधक (भारत व स्था.) Asst. General Manager (Rectt & Estt.) का. मृ. म. प्र. औ. प्र. भा. सं. नि. सि. Olo. C.G.M. AP. BSM.. हेबराबादी श्रेटकाकेट 888 881.

(Total Marks in words:

Booklet No: TT/LDCE-16/1130

TELANGANA TELECOM CIRCLE

LIMITED DEPARTMENTAL COMPETITIVE EXAMINATION - 2016 FOR PROMOTION TO THE CADRE OF TELECOM TECHNICIAN

Maximum Marks: 100 Marks NAME OF THE EXAMINATION CENTRE Duration : 2 1/2 Hrs. RTTC,GACHIBOWLI,HYDERABAD I certify that I am the person whose Name and Roll No. appears in Admit Card & in this Question cum Answer Booklet. Signature of the Candidate: SECRETE CODE (FOR OFFICIAL USE) **ROLL NO:** LIMITED DEPARTMENTAL COMPETITIVE EXAMINATION - 2016 FOR PROMOTION TO THE CADRE OF TELECOM TECHNICIAN IN TELANGANA TELECOM CIRCLE Duration: 2 1/2 Hrs. Maximum Marks: 100 Marks SECRETE CODE (FOR OFFICIAL USE) NAME OF THE EXAMINATION CENTRE RTTC,GACHIBOWLI,HYDERABAD SIGNATURE OF THE CENRE SUPERVISOR WITH DESIGNATION & DATE **INSTRUCTIONS TO THE CANDIDATE:** 1. The Question Paper consists of 2 sections. Section-1 for 50 Marks on General Science & Mathematics and section-II for 50 Marks on Departmental Practices. 2. Total No. of questions are 100 and each question carries one mark. 3. Answer all the Questions. 4. For each wrong Answer 0.25 Marks shall be deduced. 5. Candidates should not write their name or anything else anywhere in the Question cum Answer Booklet. Any violation of this condition is liable for rejection of his/her candidature. Total: Section-1: Section-II: Marks secured:

SIGNATURE OF THE EXAMINER WITH DESIGNATION & DATE

Duration: 2hours 30 minutes Maximum marks:100

Section-I Mathematics

1. 4	25%	10	500	15											
A . 1	100	B. 200		C. 500		D.	125								
AN	SWER								{		}				
2.	%	of	50	is	10										
A.	9	B. 20		C. 12		D.	5								
AN	SWER								{		}				
3.	What	is the	value o	of 10%	of	50%	6 of	10	0						
A.	2	B. 5		C. 25		D.	10								
AN	SWER								{		}				
4. is th	A ne cost prio			a cam	era for	Rs.	2700	agai	nst pro	ofit of	1/8th	of	its	cost.	What
A.	Rs.2400		B. Rs.	.2600		C.	Rs. 26	50		D.	Rs. 24	50			
AN	SWER								{		}				
5. ′	Television	is so	ld fo	r Rs. 36	,000 a	t a lo	oss of	4%.	Wha	t is	its c	ost	prio	e?	
A. 1	Rs. 37100)	B. Rs.	37400		C.	Rs.373	300		D.	Rs.375	00			
ANS	SWER								{		}				
6. <i>I</i>	A grosser	purcha	ased 20	00 kg o	f rice	at]	Rs. 40	/kg.	He so	ld 80) kg at	a	gain	of	5%
	and re	maining	g at ga	in of 4	%.	Wh	at is t	otal	gain ?	•					
A.	Rs.350		B. Rs.	362		C.	Rs.352	2		D. I	Rs.360				
ANS	SWER								{		}				

7.	Sum of mon	ey at simple interest	amounts to R	ls. 840	0 in three years and 870 in 4
	years. The su	m is			
A. Rs	s.750	B. Rs.760	C. Rs.780		D. Rs.860
ANSW	VER			{	}
8.	How much	time will it take f	for an amoun	t of	Rs. 1500 to fetch Rs.202.50 (
	4.5% per ai	nnum at simple int	erest ?		
A. 1 y	ear ear	B. 2 year	C. 3 year		D. 4 year
ANSW	VER			{	}
9.	How much	money will fetch	Rs. 10000/ at	sin	nple interest rate of 6% per
	annum for 1	1 year 6 months?			
A. Rs	.800	B. Rs.1200	C. Rs.1300		D. Rs.900
ANSV	VER			{	. }
10.	At what %	of simple interest, a	a sum of mo	oney	will be double in 10 years?
A. 7.	5	B. 9	C. 21		D. 10
ANSV	VER			{	}
11.	Average wei	ight of 48 students	in a class is	42 kg	g . If the weight of the
	teacher is a	added, the average	increases by	half	kg. What is the weight of th
	teacher?				
A. 60	kg	B. 65kg	C. 62Kg		D. 66.5 kg
ANSV	VER			{	}
12.	,	e average age of 30 boy verage age of the whol	•	nd the	e average of 20 girls is 12 years.
A. 12.	.6 years	B. 12.5 years	C. 12.7 years		D. 13 years
ANSW	VER			{	}
13.	Find the value	e of 12X 13 + 15 – 14	ı		
A. 17	7	B. 157	C. 167		D. 158
ANSW 2 P a				{	}

14.	In a mixture 6	60 litres, the ratio of m	nilk and water 2	2 : 1. W	hat i	s quantity of water
A. 10	litres	B. 40 litres	C. 50 litres		D.	20 litres
ANSV	VER			{		}
15.	A and B toget	her have Rs. 2100. If	half of A's amo	ount is e	equal	to B's amount, how
	much amount	t does A have?				
A. Rs	s.1400	B. Rs. 1800	C. Rs.900		D.	Rs. 1000
ANSV	WER			{		}
16.	10% of Rs. 1	500 is				
A. Rs	s.140	B. Rs. 160	C. Rs.180		D.	Rs. 150
ANSV	WER			{		}
17.	Multiplication	n:: 125 X 12 X 16				
A. 26	000	B. 24000	C. 34000		D.	28000
ANSV	VER			{		}
18.	Find the valu	ue of "X" in the equ	uation 3X - 5	5 = 85		
A. 30		B. 40	C. 50		D.	90
ANSW	VER			{		}
19. Di	ivision: 12	25 -:- 25 = ?				
A. 59		B. 49	C. 58		D.	48
ANSW	/ER			{		}
20. V	alue of Y in	49Y -5 = 926				
A. 17	B. 16	C. 19	D. 18			
ANSW	ER			{		}

21. Find the simple form of $\frac{48}{192}$	
A. <u>1</u> B. <u>2</u> C. <u>3</u> D. <u>4</u> 5	
ANSWER {	}
22. What is the angle between hour and minutes	needles at 9 hour 10 minutes ?
A. 145 B. 160 C. 130 D. 120	
ANSWER {	}
23. A math club has 25 members, of which 11 are males a ratio of males to all club members?	and the rest are females. What is the
A. 11:25 B. 25:11 C. 24:10	D. 10:24
ANSWER {	}
24. Which is a acute angle	
A. 30 degree B. 120 degree C. 90 degree D.	. 350 degree
ANSWER {	}
25. The ratio of girls to boys in a a swimming club was 2	: 4. There were 14 girls. How many
total members were there in the club?	
A. 42 B. 32 C. 52 D. 10:54	
ANSWER {	}

GENERAL SCIENCE

1. Potential of	difference between two	points measure	ed usi	ing
A. Centimeter	B. Voltmeter	C. meter	D.	Millimeter
ANSWER			{	}
2. Meter used	l for measurement of el	ectric current is	;	
A. Centimetre	B. Voltmeter	C. Ammeter	D.	Millimetre
ANSWER			{	}
3. If three res	sistances of value 5 ohm resistance will be	s, 6 ohms and 7	ohm	as are connected on series the
A. 16 ohms B.	17.8 ohms C. 18	.1 ohms	D.	18 ohms
ANSWER			{	}
4. In MKS sys	stem the unit of measure	ement of weight	is	
A. Kilo grams	B. Meter	C. Hour	D.	Centimetre
ANSWER			{	}
5. In MKS sys	stem the basic unit of r	neasurement of	Tim	e is
A. Year B. H	Hour C. Minutes	D. Seconds		
ANSWER			{	}
6. One Kilome	etre is equal to how ma	any miles ?		
A. 0.84 B. 0	.5 C. 1.6	D. 0.62		
ANSWER			{	}
7. BAR is the	unit of measurement of	:		
A. Temperature	B. Heat	C. Atmospher	ic pr	essure D. current
ANSWER			{	}
5 P a g e				

8. Joule is the unit of measurement of									
A. Temperature B. Heat C. Energy D. Light									
ANSWER { }									
9. Electric current is measured by									
A. Commutator B. Voltmeter C. Ammeter D. Barometer									
ANSWER { }									
10. Kilo Watt is the unit to measure									
A. Work B. Power C. Electricity D. None of thesd									
ANSWER { }									
11. The unit of measurement of Current is									
A. OHM B. WATT C. AMPERE D. None of these									
ANSWER { }									
12. Nautical mile is unit of distance in									
A. Navigation B. Space C. Road D. None of these									
ANSWER { }									
13. Richter scale is used for measuring									
A Destination of Park D. Walacine of adult. C. Interview of and analysis. D. D.	r (()								
A. Density of liquid B. Velocity of wind C. Intensity of earth quake D. N	one of these								
ANSWER { }									
14. An electric heater draws 4 Amps from 230 Volts source. The resistance of is approximately	t heating element								
A. 55 Ohms B. 57.5 Ohms C. 53.5 Ohms D. 50 Ohms	í								
ANSWER { }									
15. The formula to find "I' when V and R known is									
A. $V = IR$ B. $V = R/I$ C. $V = I/R$ D. None of these									
ANSWER { } 6 P a g e									

16.	How much re	sistance is required to	limit the curre	ent f	rom 12	V battery	to 3.6 mA	
A. 20	K Ohms	B. 3.3 K ohms	C. 33 K ohms	5	D.	2 K ohm	s	
ANSV	WER			{		}		
17.		sistances of value 20 C stance will be	ohms and 5 Ol	hms .	are coni	nected in p	parallel, the	
A. 4	Ohms	B. 5 Ohms	C. 6 Ohms	D.	25 Oh	ms		
ANSV	WER			{		}		
18.	Electrical other.	are the m	aterials that allo	ow e	lectricit	y to flow f	from one point to	O
A. Co	nductor	B. Insulator	C. wood	D.	None	of these		
ANSV	WER			{		}		
19.		is a good conductor o	f electricity.					
A. Co	pper	B. Wood	C. Glass	D.	None	of these		
ANSV	VER			{		}		
20.		are the materials that	DO NOT allo	w ele	ectricity	to flow	from one point	to
	other							
A. Co	nductor	B. Insulator	C. wood	D.	None	of these		
ANSV	VER			{		}		
21.	A	is an electrical devic	e made from	wo	types (p- type po	sitive, N – type	
	Negative) mo	dified solutions.						
A. Cor	nductor	B. Insulator	C. Semi- cond	lucto	or D.	None of	these	
ANSW	VER			{		}		
22.	The most con	nmonly used semi co	nductor is,					
A. Ger	manium	B. Silicon	C. Car	bon	D.	Sulphur		
ANSW				{		}		

A. Goes Up	B. Goes	down	C. F	Remains	same	D.	Can not say
ANSWER				{		}	
24. How s	should the electric effect on other lam	lamps in a house p in same buildir	be con	nnected	so that	the sw	itch on and off in one
A. Series	B. Parallel	C. Round cir	rcuit	D.	None o	of these	
ANSWER				{		}	
25	save the ele	ectrical appliance	durin	g short	circuit		
A. Switch	B. Socket	C. MCB	D.	None o	of these		•
ANSWER				{		}	
		@	@	@			

When pure semiconductor is heated its resistances

23.

Section-II

DEPARTMENTAL PRACTICES

1. IS US	ea to connect swit	cning Equip	ment to	MDF				
A. Switch board cable	B. Power cab	le C.	Under g	round cab	le	D.	None of th	iese
ANSWER			{		}			
2is t	used to provide telep	phone conn	ection fi	rom DP at	cus	tomer	premises.	
A. Jumper wire B	. Drop wire	C. Under g	ground c	able	D.	Can n	ot say	
ANSWER			{		}			
3. MDF stands for	r							
A. Main distribution fra	me B. Media drop	frame C.	Media	drop furni	ture	D.	None of	these
ANSWER			{		}			
	ole is fabricated of oped insula		re solic	d electroly	te gr	ade		and
A. Copper & PVC E	3. Copper & Rubber	r C. Alu	minium	& PVC	D.	Alumi	nium & R	.ubber
ANSWER			{		}			
5is us	ed for connecting	cable term	nination	to Exch	ange	Equip	ment in 1	MDF
A. Drop wire B.	PVC Wire	C. Jumper	wire	D. U	.G Ca	able		
ANSWER			{		}			
6 under gr	ound cables are us	ed in BSN	L genei	rally for p	rovid	ing to	elephone	
A. PIJF B.	FIJP	C. IJFE	D.	Can not s	say			
ANSWER			{		}			
7. The under groun	nd cables used in l	BSNL are	having	conducto	r mac	de of		
A. Copper B.	Zink	C. Lead	D.	None of	these			
ANSWER			{		}			
9 P a g e								

8. The pairs in	O.G Cables are iden	itified by			
A. Colour code	B. Pair size	C. Pair coun	D.	None of these	
ANSWER			{	}	
9. The size of	the UG Cables used	l in BSNL are			
A. 20, 50, 100, 200 p	pairs B. 25, 60, 12	20 pairs C. 15	, 35, 150,25	0 pairs D.	None of these
ANSWER			{	}	
10. Brand name	of BSNL fixed telep	hone connecti	ons is		
A. A fone	B. B fone	C. C fone	D. D fon	e	
ANSWER			{	}	
11. Brand name	of Cellular services in	n BSNL is			
A. BSNL Mobile	B. BSNL Cell	C. Mobile B	SNL D.	Cell BSNL	
ANSWER			{	}	
12. Brand name	of Broadband service	es in BSNL is			
A. Broadband BSNL	B. BSNL Broadbar	nd C. BSNL B	B D.	None of these	
ANSWER			{	}	
13. Brand name of	of Mobile pre paid se	rvices in BSNL	is		
A. Cell one B. Ex	ccel C. GS	SM D. S	GM		
ANSWER			{	}	
14. BSNL Board and Govt. Directors,	has gotat present	_ no. of Direct	ors includir	ng non-official ir	ndependent
A. 4 B. 3	C. 5	D. 8			
ANSWER			{	}	
15. In BSNL Boa	ard staff matters are h	andled under b	y Director _		
A. Finance	B. CFA C.	СМ	D. HR		
ANSWER 10 Page			{	}	

d 6	Each jumper	wire in MDF is							
A. sea	aled pair	B. Individual	C. Twisted p	air	D.	None o	f theas	e	
ANSV	WER			{		}			
17.	Power plant	provides	to switch r	oom					
A. +	48 Volts DC	B 48 Volts	s AC	C 4	8 Volt	ts DC	D.	+ 48 Volts D	C
ANSV	wer .			{		}			
18.	VAS in BSN			1			D	Name of the	
A. Vii	rtual add servio	e B. Value added so	ervice C. Vali	ie advei	rusem	ent servi	ce D.	None of the	5E
ANSV	WER			{		}			
19	is	a media between s	witching netwo	rk and s	subscr	iber lines	6		
A. Mi	DF	B. DDF	C. IDF		D.	None of	these		
ANSV	WER			{		}			
20. A. pro	_	y holds central offices s B. Battery C.			these				
ANSV				{		}			
21.	Telephone ce	ntral offices supplies	to p	ower tel	lephor	ne is cust	omer j	premises.	
A. 48	Volts DC	B. 48 Volts AC	C. 230 Volts	AC	D.	230 Volt	s DC		
ANSV	VER			{		}			
22.	The end point	t where under ground	cable is termin	nated is		,			
A. MI)F	B. Cabinet	C. Pillar		D.	DP			
ANSV	VER			{		}			
23.		ne lines that run bet							
A. Sul	oscriber and ex	change B. Switchir	ng system and p	oower p	lant	C. Swite	ching e	equipments	
ANSV	VER			{		}			

| Page

24. The	cable lai	a betwe	en Pillar and	Dp is called			
A. Primary	cable	B. Sec	condary cable	C. Distrib	ution cable	D. None of t	hese
ANSWER					{	}	
25. Cab	le laid b	etween	Exchange MI	DF and Pillar	is called		
A. Primary	cable	B. Ov	er head cable	C. Distrib	ution cable	D. None of t	hese
ANSWER					{	}	
26. In 1	arge Tele F and P	ecom sy illar.	stem,	are used to te	erminate un	der ground cat	ole between
A. DP		B. Ca	binet	C. DDF	D. IDF		
ANSWER					{	}	
27	are	e used t	o terminate U	Jnder ground	cables in P	illar.	
A. DP		B. Ca	binet	C. CT Box	D. Rosse	ette	
ANSWER					{	}	
28	is r	necessary	y to protect e	exchange equi	pments fror	n surge voltag	ges.
A. IPM		B. KP	PM	C. LPM	D. JPM		
ANSWER					{	}	
29. Plannir	ig and lay	ing of di	istribution cab	le is	than prima	ry cable in a T	elecom system.
A. More		B. Les	SS	C. Equal to	D. None	of these	
ANSWER					{	}	
30. CD	OT Stand	ls for					
A. Centre C. Commo			of telematics f telecom		entre for de one of these	velopment of	telephone
ANSWER					{	}	
31 A li	ne card i	n a CDO	T exchange h	as got	subscriber	ports	
A.8	B. 16	•	C. 32	D. 4			
ANSWER 12 P a g e					{	}	182

32.	can be connected t	o an CDOT AN	IRAX	
A. E1 stream	B. STM 4	C. DWDM	D. STM	16
ANSWER			{	}
33. An ANRA	X uses a maximum of	PS7	ΓN ports	
A. 236	B. 248	C. 256	D. 228	
ANSWER			{	}
34	are the protective devi	ces used in CDO	T RAX MD	F.
A. IPM	B. Heat coils	C. Carbon ar	restors D.	None of these
ANSWER			{	}
35. Batteries a	are interconnected in I	BSNL using		stripes
A. Copper	B. Aluminium	C. Lead	D. Steel	
ANSWER			{	}
36. Batteries as	re connected in	to float r	ectifier.	
A. Series	B. Series and para	llel C. Par	allel D.	Not connected
ANSWER			{	}
37. In a telepho	one exchange	pole of recti	fier is earth	ed.
A. Positive	B. Negative	C. Positive ar	nd Negative	D. Not earthed
ANSWER			{	}
38	type of power plants	are used in BSN	L at present	t.
A. Conventional	B. SMPS type	C. Switching	cubicle	D. None of these
ANSWER			{	}
39 n	o. of battery sets are	being used in al	l BSNL ex	changes.
A. 4 sets	B. 1 set	C. 2 sets	D. 3 sets	
ANSWER			{	}

40. F	For starting of	Engine alternato	ors of higher	capacity -		is used	i .	
A. Powe	er plant	B. Batte	ry	C. Engi	ne D.	None of	these	
ANSWE	ER			{		}		
41. I	n BSNL for	running Engir	e alternato	rs	used.			
A. Petro	ol	B. Diesel	C. Ke	erosene	D. Crude	oil		
ANSWE	ER			{		}		
42.	The number o	of battery cells u	sed for telep	hone exch	anges in I	BSNL is -		
with eac	ch battery ce	ell ofV	olts.					
A. 24,3		B. 24,2	C. 24	,4	D. 24,6			
ANSWE	ER			{		}		
43. I	Regular checl	king of	is to be	done for s	mooth ru	inning of	Engine Alter	nators
A. Lubri	icant level	B. Water level	C. Air	level D	. None o	of these.		
ANSWI	ER			{		}		
44. The electrolyte used in Batteries is								
A. Sulph	huric acid	B. Carbo	on dioxide	C. Lead	D. Dis	tilled wate	er	
ANSWE	ER			{		}		
45. BSNL uses type of batteries in telephone exchanges								
A. Main	tenance free	B. Main	tenance	C. Top uj	batteries	D. N	lone of these	
ANSWE	ER			{		}		
46		is used for top	ping up of a	acid batter	ies.			
A. Pure	water	B. Rain water	C. Dr	inking wa	er D.	Distilled	water	
ANSWE	ER			{		}		
47. Name of Present Hon'ble speaker of Loka sabha is								
A. Sri. Manohara Joshi B. Smt. Sumithra Mahajan C. Smt. Meera Kumar D. None								
ANSWE	ER			{		}		

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48.	Name of	present	CMD BSNL	is			
A. Sri	Anupam Sriva	itsav	B. Sr	i. R.K I	Jpadhyay	a	C. None of these
ANSV	VER				+	{	}
49.	In BSNL Bo	ard	Consumer Fi	xed ass	ets is hea	ded by	
A. Dir	ector (CM)	B. Dire	ctor (CFA)		C. Dire	ctor (EB)	D. None of these
ANSV	VER				+	{	}
50.	In BSNL the	designati	on CGM star	nds for			
A. Ch	ief General Ma	anager	B. General M	I anager	(Charge)) C. N	one of these
ANSV	WER				+	{	}
			(a (@ @		