

## SELECTION FOR THE POST OF JE/TELE (LEVEL-6) OF PAY MATRIXUNDER VII CPC AGAINST 30% PROMOTIONAL QUOTA, S&T DEPARTMENT (TELE WING), CHENNAI DIVISION.

Date: 09.05.2019 Time: 10.00 hours

Total marks: 100 Duration: 120 Minutes

#### Instructions to the Candidates:

- 1. Candidates should write their name, designation, office, roll number/staff number etc., <u>ONLY</u> in the space provided in the fly leaf and not in any of the page in the answer books or additional sheets.
- 2. Any names/roll numbers if found in the answer books or additional sheets, such papers will be disqualified.
- 3. In the answers to the objective type questions, no correction of any type is permitted. In case any correction is made, that answer shall not be evaluated at all for e.g. (a) cutting (b) overwriting (c) Erasing (d) scoring off a ticked answer in multiple choice and ticking another answer and (e)modifying the answer in any way will not be evaluated at all.
- 4. Each Ques on carries 1 mark.
- 5. There are 110 questions of Multiple choice answers to this question paper.
- 6. Question Nos. 1 to 100 are related to <u>Professional subject</u> and <u>Question Nos. 101 to 110</u> are on <u>Official language policy and Rules, which are optional</u>. The candidates should <u>choose any 100 questions (100 only) out of the 110 questions asked.</u>
- 7. Candidates may note that there shall be <u>negative marking for incorrect answers</u>. One third of the marks allotted for each question will be deducted for wrong answers. Cutting, Overwriting, Erasing or Alteration of any type in the answer, will not be accepted to ensure authenticity of the answers. Zero marks will be given for answer having correction/overwriting.
- 8. The Question paper has 08 pages.

1.	Optical fibres accept signals only		
	A. Unipolar	C. Any polarity	
	B. Bipolar	D. None of the above	
2	Diameter of each core in 6 Quad Cable is		
	A. 1.6mm	C. 0.9 mm	
	B. 1.7 mm	D. 1.5 mm	
3.	Final capacitance value when two capacitors of 500	MFD connection in parallel is MFD	
	A. 1000	C. 1500	
	B. 1200	D. None of the above	
4.	The out put of NOT gate is of its input.		
	A. Parallel	C. Reverse	
	B. Inverse	D. None	
5.	noise should not exceed 2 mili volts		
	A. Psophometric	C. Biometric	
	B. Isometric	D. None of the above	
6.	In PCM, bit rate of 30 channels is		
	A. 1.450 mbps	C. 2.048 mbps	
	B 1.540 mbps	D. 2.408 mbps	
7.	is essential when loud speaker are connected in voltage matching.		
	A Inverter	C. Walkie Talkie	
	B. Horn	D. Matching Transformer	
8.	is the raw material used for making Optic F		
	A. Polymer	C. Silica	
	B. Nylon	D. Copper	
9.	Whenever Cables has to cross the track, it should be ensured that;		
		C. The cables cross track under Points and crossings.	
	B. The cables are laid openly crossing the tracks.	D. None of the above.	

		provide a high-quality joint v	vith the lowest loss and are practically non-reflective.	
.		provides 8		
	A	Mechanical Splices	D. None of the above	
	В	Fusion Splices  Cable is used for Level Crossing Gate C	ircuit Phone.	
1.				
	А	. Quad 5/2	D. None of the above	
	В	Quad 6/4	D. None of the above verter or an can be used for extension of LAN	
2.	While	providing Railnet connectivity, a media same	The following th	
	throu	igh OFC.	C. Optical Fiber Switch	
	1	A. Quad Cable	D. Optical Switch	1
	1	B. Optical Ethernet Switch		1
13.	PTZ	in camera stands for	C. Pan Tilted Zonal	0,0
		A Pan Tilt Zone	None of the above	1
		B. Part Tilt Zone	exterred to the DVR in a cable	1
14.	In A	B. Part Tilt Zone nalog surveillance system video signal is tran	C Coaxial	1
14.		A. Quad	D. System	
	1	B. Copper	rates susveillance system?	1
15	Wh	B. Copper ich of the following statement is correct for A	nalog surveillance system?  C. No restriction on distance and supports wireless	
15.	VVII	A. Has got restriction on distance. Does no	D. None of the above.	
		t wireless		-
		B. Easy installation and Supports wireless		-
	100	and of or	C. Integrated Service Digit Net	
16.		I Carriege Digital NetWork		_
		A. Internal Service Digit Net	D. Integrated Services Digital Network stem so that a pair of telephone wires is capable of	1
		B. Internal service by	stem so that a pair of telephone	
17.	.   151	rrying voice and data simultaneously.	1 Double	
	ca	rrying voice and data simultance ,	C. Both Single and Double	
		A. Single	D. None of the above.	
	* *	B. Double		
18	3.	FOIS stands for for system	m C. First Operation Informations system	
		A. Freight Operation Informations System	( )	
	-   -	Freight Operation Information Syste     Freight Operational Information Syste		
19	9	The Antenna used in Walkie-Talkie is	C. Steel	
1.	J.	A. Traditional Antenna	D. None of the above	
		B Helical	s less than Refractive Index र्ज Core.	
1-	10	In OFC cable Refractive Index ofis	s less than ken active muck in	
1 2	20.	- in G	C. Copper	
	1		D. All of above	
		<ul> <li>B. Cladding will start if output of an amplifer</li> </ul>	fed back to input.	
1	21.		C. Osember	
		A. Circulation	D. Current  , the amplifying system should be chosen in such a way that it is the audience, a desirable sound level of during	
		B. Spiral	, the amplifying system should be chosen in such a during	
	22.	While arranging PA systems for the work amongst	, the amplifying system should be chosen.  the audience, a desirable sound level of during	
		operation.	C. 100 dB	
		A. 80 dB	D. 60 dB	e
		B. 110 dB	D. 60 dB speakers in each group should be connected and in phase	_
	23.	While connecting loudspeakers, all the loud		7
		across the output line.	C. In Parallel	
		A. One behind the other	n None of the above	
		B. One above the other	Chapter VIII is	
1		Poutine Transmission loss test as per Telec	com Manual Chapter VIII is	
	24.	A. Monthly		
1		. A DALBALLIA	D. Yearly	

25.	UTS, PRS, POET Terminals come under		
	A. Public Utilities	C. Station Amenities	
	B. Passenger Amenities	D. None of the above.	
26.	Earth Resistance of armour should be		
	A. Less than 1 ohm	C. Exactly 1 ohm	
	B. More than 1 ohm	D. None of the above	
27.	Crosstalk Test (near end far end) should be done Qu	uarterly as per Telecom Manual the sound level should be	
	A. Better than -55 dB at 155 khz	C Doth (a) 9 (b)	
	B. Less than -55 dB at 155 khz	C. Both (a) & (b)	
28.	Stored Program is associated with	D. None of the above	
40.	A. Optic Fibre	C. Electronic Fundament	
		C. Electronic Exchange	
29.	B. VRLA Battery Cable Fault Locator is associated with	D. Charting	
29.			
	Bridge	C. Maintenance free	
20	B. Switch to IO	D. Pulse Echo Reflection.	
30.	Rayleigh back scattering of light is associated with	6 0700	
	A. PTZ	C. OTDR	
	B. UTP	D. COA	
31.	License fee is associated with		
	A. Lan Extender	C. Pan Tilt	
	B. 5W Walkie-Talkie	D. VRLA Battery	
32.	changes or modulates digital data into electronic analog signals that the telephone network can carry.		
	A. LAN	C. Modem	
	B. STM	D. None of the above	
33.	SMPS stands for		
	A. Switch Model Prime Supply	C. Switch Mode Power Supply	
	B. Saturated Mode Power Supply	D. None of the above	
34.	HOER Rules applies to all non gazetted Employees		
	A. RPF staff	C. Casual Labours governed under Minimum Wages	
	B. Staff governed under Factory Act,	Act.	
	Mining Act	D. All of the above.	
35.	Maximum number of way station connected in DTI		
JJ.	A. 99	C. 32	
	B. 64		
26		D. 16	
36.	D Channel data rate in PRI is	C [Alb	
	A. 34 kbps	C. 54 kbps	
27	B. 44 kbps	D. 64 kbps	
37.		eed which is measured in bps. What does 'bps' stand for?	
	A. Bytes per second	C. Bites per second	
	Bits per second	D. None of the above	
38.	In IP based surveillance video recorder		
	A. DVD	C. Both (a) & (b)	
	B Network	D. None of the above.	
39.	fire extinguishers for datacom installatio	ns should not be used.	
	A. Sand based	C. Air based	
	B. Water based	D. None of the above.	
40.	Electronic equipments are to be provided with	SPD at both ends of the conductors.	
40.	Electronic equipments are to be provided with		
40.	A. Class-A	C. Class -C	

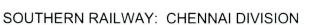
1.	The megger is a portable instrument used to me	easure of cables.
1	A. Failure	C. Ilisulation (Calaborate
	D. Cable Cut	D. None of the above.
2.	The number of days Maternity Leave admissible	to Women employees is
-	A. 90 days	C. 150 days
100	B 120 days	D. 180 days
43.	The Loop resistance of Quad cable 0.9mm dia is	s Ohms/Loop km.
13.	A. 56	C. 76
	В. 66	D. 86
44.	Earth isConductor	
-	A. Good	C. Both (A) & (B)
	B. Bad	D. None of the above.
45.	bits make One Kilo byte (Kb)	(_
43.	A. 1204	C. 1024
	В. 1402	D. 4102
46.	The transmission of 6 Quad Cable in unloaded	cable is dB/Loop Km.
40.	A. 0.169	C. 0.619
-	B. 0.916	D. 0.9
17	are normally provided at every 50 m	neters on the cable route.
47.		C. Both (A) & (B)
	The state of the s	D. Cable Markers
	B. Cable route indicators.	nted with alternatively black and white paints for length
48.		
	each.	C. 15 kms
	A. 15 cms.	D. None of the above.
	B. 15 meters	
49.	Microwave communication have a frequency r	C. 4 GHz to 50 GHz
	A. 3 GHz to 30 GHz	D. None of the above.
	B. 30 GHz to 40 GHz	
50.	PIJF stands for	C. Prime Insulation jelly field
	A. Pole insulated Jelly field	D. None of the above.
	B. Polythene Insulated Jelly Field	
51.	can be described as the ne	rve centers of the Divisional operating organization.
	A. Control Office	C. Divisional Office
	B. Exchange Board	D. None of the above.
52.	Communication between control office &	way stations on electrified areas, the control communication
	circuits are provided on basis thro	ough under ground communication cable wires.
	A. 4-wire	C. 3-Wire
	2 11/2	D. None of the above
F 2	The maximum limit of induced voltage is 1	150Volts as per the directives of ITU the interval between any
53.	two cable huts shall be around	
		C. 17 Km.
	A. 15 Km	D. 18 Km
	B. 16 Km	
54.		ngineered to meet the following requirements:
	A. Speech	C. Both (A) & (B)
	B. Signalling	D. None of the above.
55.	Media used for providing control commun	nication circuits :
33.	A. Optical Fiber cable	C. 6 Quad cable

6.	During selective calling using Drivin Signature in	nethod two tones of frequency within the voice band igit. Between the two frequencies both within
	the VF band.	
-	A. One is low frequency and other a high	C. Both are high frequency
	frequency  B. Both are Low frequency	D. None of the above.
7.	In cellular communication, cells are to be separated	in to avoid Co-channel Interference.
1.	A. Time	C. Time space frequency
	D Coaco	D. Both Time and Space
8.	The control office equipment is designed for 4-	Wire operation which can be converted into 2-Wire
	operation by provision of aattachmen	it.
	A. Coaxial	C. Hybrid
	B. Switch	D. None of the above.
9.	The EMC post should be erected at a distance	not from the outermost rail of the track.
	less than 3m	C. Anywhere near the track
	B. More than 4m	D. None of the above.
50.	VF repeater stations, installed on Railway are	
	A. Conventional type	C. Both (A) & (B)
	B. Equalizer type	D. None of the above
61.	Patching with co-axial/OFC channels are hired	from
31.	A. Railtel	C. MTNL
	D DCNI	D. CORE
62.	Drivers & Guards are provided with	to communicate with the controller in case of
62.	accidents and other unusual occurrences.	
	A. Portable EMC Telephone	C. Auto Phone
	B. Wireless Telephone	D. Magneto Phone
63.	B. Wireless relephone violation	technique is used to detect errors in the line signal.
03.	A. Unipolar	C. Tripolar
	B. Bipolar	D. None of the above.
<i>C</i> 1	The height of EMC post should be	
64.	A. 1 meter	C. 2 Meter
	B. 1.8 meter	D. 2.8 meter
<u></u>	Censure comes under	
65.		C. Warning
	A. Major Penalty B. Minor Penalty	D. None of the above.
66.	Metallic sheath is provided in RE cable to	
00.	A. Reduce induced voltage	C. Reduce weight of cable
	B. Reduce cross-talk	D. All of the above.
67.	The Cell used in Walkie-Talkie is	
07.	A. Lead Acid	C. LMLA Cell
	* Torch Cell	D. Ni-lead Cell
68.	Inverter converts	
00.	A. AC to DC	C. AC to AC
	DC to AC	D. DC to DC
69.		
00.	A. Net Management System	C. Network Management System
	B. Network Manage System	D. None of the above.

70.	Time slot are available in PUNCOM ML	IX			
	A. 36	C. 33			
	B. 35	D. 32			
71.	OTDR stands for				
	A. Optical Time Domine Reflecto meter	C. Optimum Time Domain Reflector			
	B. Optical Time Domine Reflect	D. None of the above.			
72.	Under HOER Supervisor comes under	Category.			
	A. Excluded	C. Continuous			
	B. Intensive	D. Essentially Intermittent			
73.	SMPS is associated with				
	A. IMARSAT	C. MOSFET			
	B. VSAT	D. SPD			
74.	To arrest the equipments from high voltage due	to surge and lighteners is called			
	A. Modem	C. Patching			
	B. Surge Protection	D. SMPS			
75.	Voice, Video and Text is associated with				
	A. ISDN Exchange	C. Modem			
	B. Telephone	D. PA System			
76.	PRS is associated with				
	A. Arrest Deficiencies of manual	C. Computerised Reservation.			
	intervention	D. All of the above.			
	B. UTS	The doctor			
77.	The Support Management system of Telecommun	nication System to improve efficiency is			
	A. PRS	C. NMS			
	B. SPD	D. VSAT			
78.	Testing of integrity of fiber optic cable is one of th				
	A. QTDR	C. SMPS			
	B. OTDR	D. None of the above.			
79.	A credit of days of Leave on Half Average	Pay is given in a calender year.			
	A. 300	C. 20			
	B. 30	D. 10			
80.	DTMF stands for	D. 10			
	A. Duel Tone Multi Frequency.	C Discoult Marie			
	B. Dia-Tone Multi Frequency.	C. Diagonal Tune Multi Frequency			
81.		D. Direct Tone Multi Frequency.			
01.	The penalty of Compulsory Retirement, removal of service, termination, reversion to lower stage fall under				
	A. Major Penalty	C. Both (A) & (B)			
	B. Minor Penalty	D. None of the above.			
82.	The Electrolyte used in lead acid cell is	The of the doore.			
	A. Nitric Acid	C. LMLA Cells			
	B. Citric Acid	D. Sulphuric Acid			
83.	The most widely used instrument for investigating	both Analogue as well as Digital Circuits is			
	A. Oscilloscope	C. Voltmeter			
	B. Stethoscope	D. Ammeter			
84.	The insulation –resistance test set for measuring la				
	A Megger				
	B. Patching	1.00			
85.	In case of Conductor break fault (one limb or both)				
JJ.	A. Negative				
	B. Positive	C. Neutral			
	D. LOSITIVE	D. None of the above.			

86	The most common digital display in modern  A. Nine	equipment is committee
		c Seven
0.7	B. Eight	
87.	The terms DCA, main gate, trigger, input amo	D. Six plifier, main gate flip-flop, time base and display clock in a block
	diagram is associated with	pinner, main gate flip-flop, time base and display clock in a block
	A. SPD	
	B. VSAT	C. Frequency Counter
88.	On Indian Railways, the Overhead telecom I	D. None of the above.
	A. Main line alignment	ines can be classified as
	B. Local line alignment	C. Both (A) & (B)
89.	The posts for overhead alies	
	A Tripod posts	D. None of the above.  nmonly used in the BSNL are tubular posts, known as
	B. Quadruped posts	C. Single Head posts
90.	Microphone as	D. Hamilton Standards
- 0.	Microphone converts acoustic energy into	energy
	A. F. Electrical	C. Sound
91.	B. Mechanical	
51.	the of the minimum essential equipments to	be provided in the ADT:
	output (having interface for cordless micropho  A. 12 V DC	D. None of the above be provided in the ART is Amplifier of minimum 20 watts power ones). Its operating voltage should be
	A. 12 V DC	8 rottoge stroutd be
	B. 13 V DC	C. 14 V DC
92.	Low Speed modem works on	D. 15 V DC
	A. 44 kbps	
	B. 54 kbps	C. 64 kbps
93.	Range of recommended specific and its	D. 74 kbps
	Range of recommended specific gravity of election A. 1200-1220	ctrolyte of lead acid cell is
	B. 1220-1400	C. 1400-1620
94.	Battery invertor & DC DC	
	Battery, inverter & DC-DC concept is associated A. ISS	with
	B. IPS	C. PRS
95.		D. None of the above
,,,	TPWS stands for	J. Notic of the above
10.00	A. Train Practice Warning System	C. Train Protection Warring
	Irack Process Warning System	Totellon Warning System
6.	While selecting the cable route, it is always profe	D. None of the above.
	A. the curved line	
	B. the straight line	C. the loop line
7.	At Level Crossing Catal	D. None of the above.
	A. One meter	ose cable should be coiled
	B. Two Meters	C. Three Meters
3.	PDCH stands for	D. Four Meters
	dio in Data Communication Hub	C. Passenger Display Center hub
). F		D. None of the above.
-	Platform display boards which are suspended in the Age Single faced	he middle of the platface of the
	A. Single faced  B. Double faced	C. Both (A) 8. (B)
0. T		1 (A) & (B)
U.   I	ne 12F armoured (OFC) cable also used for under	D. No boards required.  ground and aerial laying purposes containsnumber
0	or single loose tubes.	b. John and Jerial laying purposes contains number
	A. Ten	The state of the s
	B. Eleven	C. Twelve
		D. Thirteen

101.	The Official Languages Act 1963 was amended in	the year	
101.	A. 1967	C. 19// D. 1987	
	B. 1976	A Nisabar Islands come under the region	
102.	B. 1976 According to Official Language Rules, Andaman 8	C. C	
	A. A	D. None of the above.	
	6 B	D. None of the open	
103.	The Official Language of Arunachal Pradesh is	C English	
103.	A. Hindi	D. Punjabi	
1.	B. Oriya	het Schadule of the Constitution	
104.	At presentlanguages are enlisted in the El	ghth Schedule of the Constitution  C 21	
10	A. 19	D. 22	
	B. 20		***
105.	B. 20 The Elementary Hindi Course prescribed for Cent	C. Pragya	1 -41
103.	A. Prabodh	D. None of the above.	
- 1	B. Praveen		-4,
106.	The Chairman of the Central Hindi Committee is	C. Deputy Speaker	-
200	A The President	S State Minister	
	B. The Prime Minister	year. One is during May the other is in the month of  C. October	
107.	Hindi Regular Exams are conducted Twice in a	C. October	
	A. June	D. November	
	B. August		
108.	B. August Employees who speak South India Languages ar	C. Category C	
	A. Category A	D. Category D	
	B. Category B		
109.	The forms used by Public should be prepared i	n C. Tri lingual	
102	A. One Language	D. None of the above	
	v		
110.	Name the foreign language included in the Eigl	C. Marathi	a - 1
110.	A. Nepali		
	B. Bengali	D. Teiegu	





Selection for the post of Junior Engineer/ Telecom in level -6 of VII PC Pay Matrix (30% Promotional Quota)

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Date: 30.04.2024
Time: 11:00 Hours (120 minutes)

Total Marks: 100

#### **Instructions for Candidates:**

# PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY IN THE ANSWER SHEET

1.	Check that the Question Paper contains 110 questions and if any unprinted/torn pages are found, get it replaced.
2.	There will be 110 questions with four multiple choice answers. Each Question carries equal mark. There will be NO negative mark for wrong answer.
3.	It may be noted that in the event of any doubt/discrepancy, the most apt option and the English version will prevail. The candidates appearing for the exam are requested to clarify their doubts about any questions/ option, at the beginning of / during the examination, so that the same shall be clarified/ corrected/ substituted, for the benefit of all.
4.	Candidates are required to fill Items No. 1 to 11 in the OMR answer sheet. Use only Blue/Black Ball Point Pen for writing/shading/darkening on the OMR Sheet. Gel Pens/Pencils are not allowed.
5.	Please enter your Employee No. / PF No. in the Box provided in the Answer Sheet and darken the corresponding circle.
6.	The OMR answer sheet contains duplicate copy and DO NOT ATTEMPT TO SEPARATE OR DISPLACE THE DUPLICATE COPY WHILE ANSWERING.  The shading/darkening done on the original OMR answer sheet will automatically appear on the Carbonless Copy and hence no separate shading/darkening requires on the carbonless copy.
7.	Corrections of any type on the OMR Sheet (eg. overwriting, cutting, erasing or alterations of any type in the answer) will not be accepted. Zero marks will be given for such answers. No replacement OMR sheet will be provided.

8. Answers to Questions 1 to 110 are given in the multiple choice as A,B,C,D. Choose only one correct answer to each question from the multiple choice given (A,B,C,D) and darken/shade the appropriate circle fully. Changes are not permitted once answered.

Correct Method	Wrong Methods
•	$\otimes$ $\bullet$ $\otimes$ $\ominus$ $\ominus$

- 9. Candidates are strictly advised to answer only 100 questions out of 110 questions. The first attempted 100 questions will be evaluated and answering more than 100 will be ignored even though correctly answered. Answering of questions in official language is NOT COMPULSORY.
- 10. Please handover the OMR sheet along with its duplicate copy to the invigilator before leaving the examination hall. No OMR sheet copy should be carried by the candidate. Candidates are allowed to take the Question Paper with them after the examination.
- 11. Candidates are <u>not allowed to keep mobile phones/electronic gadgets or any other documents/papers with them in the Examination Hall. Inspite of all the instructions if any candidate is found to be carrying such equipments, candidates will be disqualified unconditionally.</u>

### QUESTIONS (1 to 110)



1.	As per RDSO Specification RDSO/SPN/TC/038-2002 Ver2.0 for Voice Data Logger/
	Monitor for Control Circuits, the power requirement of the entire equipment shall be
	A) less than 1Kw B) less than 500 Watt.
	C) more than 1Kw D) more than 500 watt.
2.	What is the codal life of SMPS based Telecom Charger and VRLA batteries?
	A) 12 and 4 years B) 12 and 5 Years
	C) 15 and 5 years D) 15 and 4 years
3.	Codal Life of VHF 5W set battery of Driver and guard is year(s) and others is
	year(s)
	A) 2 and 2 B) 1 and 2 C) 2 and 1 D) 1 and 1
4.	What is the designated colour code of the spare conductors that may be used for Block
	circuit connectivity in a 6Quad cable of RE area?
	A) Orange White Red Grey  B) Blue White Red Grey
	C) Brown White Red Grey  D) Green White Red Grey
5.	Which of the following statement is incorrect regarding Tele-Presence As A Service
	A) Associated with PAN India Video-Conferencing
	B) Maintained through STM-16 Link of Divisions
	C) Associated with DRM-GM-RB online meetings
	D) Have a complete set of Hardware-Software-Firmware in closed network
	architecture.
6.	As per the Telecom Manual -2021, the major component of VoIP based TCCS
	A) Control Communication network (CCN).
	<ul><li>B) HQ equipment/servers for control communication</li><li>C) Waystation equipment including control phones.</li></ul>
	D) All of the above.
7.	IEC code for surge protection devices connected to telecommunication and signaling
	networks is
	A) IEC 62305 B) IEC 61643-21 C) IEC 62304 D) None of these
8.	SIP stands for
	A) Session Initiation path B) Session Initialization Protocol
	C) Session Initiation Procedure D)Session Initiation protocol
9.	The duration of an E1 multiframe is milliseconds
	A) 2 B) 3.9 C) 125 D) 5.9

10.	Accident occurred at out of home station, Medical relief Hooter will sound for 45
	seconds times with a gap of 5 seconds.  A)One B)Two C)Four D)Five
11.	As per the Telecom Manual -2021, shall be used as the routing protocol for VoIP
11.	based Train Control Communication System
	A) EIGRP B) OSPF C) BGP D) STATIC
12.	Ethernet and RS-232 connectors for NMS are located in card of VMUX-100
	A) NIM card
13.	Psophometric voltage is a measurement of noise present on a transmission
	line across a telephone in millivolts.
	A) Logarithmic B)Linear C) Indirect D) Reverse
14.	As per the Telecom Manual -2021, Fixed VHF installation must be inspected
	by JE.
	A) Monthly B) Quarterly C) Half Yearly D) Yearly
15.	Divisional Disaster Management Plan is available in the form of booklet duly signed by
	A) A CM B) A D DM C) D DM D) CM
10	A) AGM B) ADRM C)DRM D)GM  Which are of the following in incorrect related to Electronic I C gate Telephone system.
16.	Which one of the following is incorrect related to Electronic LC gate Telephone system as per RDSO/SPN/TC-51/2011 (Rev. 3.0)
	(i) Electronic LC gate phone has one master and six slaves phones
	(ii) Power supply for slave phones can be either extended from Station or locally
	fed
	(iii) Power supply is 12V DC for master phone and 24V DC for slave phones
	(iv) Voice logging facility is available in both master and slave phones
	(v) DTMF signalling code is used to achieve independent LC gate communication
	from station
	A) (ii) B) (iii) C) (iv) D) None of the above
17.	In VHF communication the frequency assigned for Accident Relief Train and Guard -
	Driver communication are:
	A) 146.400 MHZ and 160. 400MHZ  B) 146.200 MHZ and 160.450MHZ
10	C) 147.975 MHZ and 161.150MHZ D) 149.750 MHZ and 162.100MHZ
18.	How many bits are there in an IPV4 and IPV6 address respectively?  A) 16 & 32  B) 32 & 64  C) 32 & 128  D) 64 & 128
19.	Modem pair required for WAN connectivity over leased lines are
	A) Synchronous V.35 +V.35  B) Synchronous V.35 + G.703
	C)Synchronous G.703+G.703 D) Asynchronous V.35 + G.703

20.	In a Cat-6 cable	there are	twisted pairs.		
	A) 4	B) 6	C) 2	D) 8	
21.	Network that is r	ot bundled alor	ng with Control Off	ice Application is	
	A) Coach Manag	gement System	B) Crew	Management Syste	em
	C) Parcel Manag	gement System	D) Block	Management Syste	em
22.	Which of the f	ollowing related	d to installation	of earthing arrang	gement for S&T
	equipments, is in	ncorrect			
	A. Avoid	made up soil ar	nd rocky area		
	B. Choos	e the nearby lo	w lying area		
	C. Trace	the cable before	e finalizing the loca	ation to avoid cable	cut
	D. Earthi	ng value does n	ot depend on soil	resistivity	
23.	In VMUX-100 ma	aximum of	conference	es can be configure	d as 4-party
	A)18	B) 30	C) 12	D) 08	}
24.	Telecom cables	shall be laid in	pipes for	a length of	meters on either
	side of TSS				
	A) GI and 300	B) RCC and	300 C) GI and 2	200 D) RCC and	1 200
25.	is a cl	ient-server prog	gram that provide	s an IP address,	subnet mask, IP
	address of a router, and IP address of a name server to a computer.				
	A) ISP	B) NAT	C) CIDR	D) DHCP	
26.	Which of the follo	owing are maint	enance steps of e	arthing arrangeme	nt for Telecom
	system				
	i. Watering	earth pit regular	·lv		
	•		nnections and clea	aning	
	9	_	months (Dry & we	-	
	iv. Adding of	earth enhancer	nent compound, w	vherever required	
	v. Installing	additional earth	pit, where earth v	alue is high	
	vi. Painting o	f earth value ar	d date of measure	ement	
	A) i to iii only	B) i to v only	C) All of the above	ve D) None of thes	e
27.	The loss offered	by a fusion sol	ice of ontic fibers	shall not exceed _	dB under any
	circumstances.	2) a lacion ep.	. ос от орио посто	_	a_ aa
	A)0.002	B)0.02	C)0.2	D)2.5	
28.			TD code of South		
_2,	A)040	B) 050	C) 060	D) 070	
		_ /	- /	,	

29.	Precautions to be taken while working in 25 KVA OHE system			
	(i) Wearing Electrical insulated Safety Shoes			
	(ii) Wearing of insulated gloves			
	(iii) Using tools with insulated handles			
	(iv) Going near to live wire			
	A) (i) & (ii) B) (i), (ii) & (iii) C) All of the above D) None of the above			
30.	As per guidelines, the CCTV footage and alarms should stored for minimum for			
	days			
	A) 15 B) 20 C) 30 D) 45			
31.	The IEEE standard for 1000 BASE-T (Gigabit Ethernet) is			
	A) IEEE 802.3u B) IEEE 802.3z C) IEEE 802.3ab D) IEEE 802.11a			
32.	On each side of minor bridge a cable reserve of meters to be provided			
	A) 4 B) 7 C) 6 D) 5			
33.	As per the Accident Manual-2022, the target time of turning out the Medical Relief van			
	at stations where it is stabled on a siding with exit from both ends is			
	A) 20 minutes B) 25 minutes C) 30 minutes D) 45 minutes			
34.	In closed area, type of speakers are used			
	A) Box type B)15W horn type C) 25Watt horn type D) None of them			
35.	In PD-MUX, a control circuit is configures in which mode			
	A) Point to point B) Conference C) Semi-conference D) All of these			
36.	Standard Drum length of 6Quad cable is			
	A) 1.5Km B) 2Km C)1000m D) 3Km			
37.	Redundant array of independent disks used in IP based CCTV surveillance system			
	has the storage capacity in			
	A) Giga byte B)Tera byte C)Kilobyte D)Mega byte			
38.	converts acoustic energy in to electrical energy			
	A) Speaker B) Amplifier C) Rectifier D) Microphone			
39.	Base station (25Watt) VHF receiver sensitivity is			
	A) 25microvolt B) 15microvolt C) 0.25microvolt D)10microvolt			
40.	The following registers are to be maintained for each contractual work:			
	(i) Daily Progress Register (ii) Material Transaction Register			
10/10	(iv) Hindrance Register			
Pro C	A) Only (i) & (ii) B) Only (i), (ii) & (iii) C) All the above D) None of these			
41.	The operating voltage and current of the Control Voice logger are and			
	A) 24VDC & 2 Amp B) 12VDC & 2 Amp C) 12VDC & 1 Amp D) 24VDC &1 Amp			



42.	Connectors are used to connect control voice channels to the voice logger.
	A) RJ11 B) RJ45 C) RS232 D) RS485
43.	The impedance ratio of the signal transformer used for Block circuit is
	ohms.
	A) 470:1120 B) 1120:1120 C) 470:470 D) 600:600
44.	As per RDSO Specification No. RDSO/SPN/TC/108/2019, Ver. 1.0, the Platform Data
	Controller shall drive
	A) Platform display boards,
	B) At-a-glance display boards
	C) Coach guidance display boards
no en ancien de la langua de la calcidad de	D) All the above
45.	Optical power meter has got the option for displaying optical power in
	A) dBm or Micro watt B) dBm only C) Micro watt only D) dBm or pW
46.	Surges voltage and current are than the working voltages and currents
	A) Very low B) Lower C) Equal D) Higher
47.	Minimumnumbers of walkie-talkies with 100% spare batteries are to be
	available in ART
	A) 10 B) 15 C) 30 D) 20
48.	Which are Salient features of IP based CCTV surveillance system as per RDSO
	specification No. RDSO/SPN/TC/65/2021 Rev.6:
	(i) Provision of Panic Button(s) at stations to send alarm to central location
	(ii) The system shall be based on non-proprietary open architecture
	(iii) IP cameras, NVR and software shall be complaint to ONVIF standards for
	interoperability
	(iv) Artificial Intelligence based Video Analytics and Face Recognition software
	A) All the above B) (i), (ii) & (iv) C) (i), (ii) & (iii) D) None of the above
49.	What type of signalling used in ISDN Exchanges?
<b>5</b> 0	A) E&M B)Loop C) CAS D) CCS7
50.	If receiver fails in any telephone instrument than what is fault  A) No outgoing speech B) No ringing C) No incoming speech D) None
51.	A) No outgoing speech B) No ringing C) No incoming speech D) None  The material used for conductor in telecom cables is high conductivity
51.	A) Insulated copper     B) Annealed copper
	C) Silver coated copper  D) Aluminium coated copper
	C) Silver coaled copper

5	2.	Which of the following are good maintenance practices of VRLA battery bank				
		(i) Use torque wrench to tighten the terminals to recommended value				
		(ii) Discharge monthly for two hours and record the battery voltages				
		(iii) Boost charge voltage should be less than 2.3Volt				
		(iv) Using anti corrosive gel on the terminals				
		A) All of the above B) (i) & (ii) C) (i), (ii) & (iii) D) None of these				
5	3.	Which one of the following abbreviation expansion(s) is not correct				
		i. TCCS -Train Control Communication System				
		ii. SCADA – Supervisory Control and Data Acquisition				
		iii. IP-MPLS – Internet Protocol-Multi Protocol Label Switching				
		iv. LTE – Long Term Evolution				
		v. ONVIF- Open Network Video Interface Forum				
		A) (i) B) (i) & (iii) C) iii D) None of these				
5	4.	The PRS server at is now working as Disaster recovery (DR) server				
		A) Delhi B) Mumbai C) Secunderabad D) Chennai				
5	5.	The advantages of Asterik software based exchange is				
		A) It is an open-source software and can be implemented on existing Railnet				
	a	Network.				
		B) Integration with existing Non-IP Telephone Exchanges and devices is				
		possible.				
		C) Supports all IP Protocols for voice transmission and all Telephony Features.				
	14	D) All of the above				
5	6.	Steps to avoid the cable cuts				
		i) Tracing of cables using Cable route tracers				
		ii) Updation of cable route plans				
		iii) Carrying out Survey before permitting excavation work				
		iv) Clear marking of existing cable route with peg marks and powder				
		v) Using RFID markers				
		vi) GIS/GPS based cable route drawings				
		vii) Ensuring cable markers availability by periodical renewal of damaged markers				
	1	viii) Burying warning tapes in the trench at certain level above cables				
		ix) Attending to exposed cables or joints				
		A) i) to iv) B) i) to vii) C) All of the above D) None of the above				

57.	Match the following tools and their pu	rpose correctly:			
	a. Optical Power meter	i) Insulation of copper cable			
	b. TMS Kit	ii) Optical power			
	c. OTDR	iii) Loss in OFC cable and faults			
	d. Cable megger	iv) Transmission loss of Copper cable			
	A) a- iii, b- i, c-ii d- iv	B) a- iii, b- i, c-iv d- ii			
	C) a- ii, b- iv, c-iii d- i	D) a- ii, b- iv, c-ii d- i			
58.	Full form of NDMA is	Litar			
	A) National Development Minis	sterial Authority			
	B) National Disaster Managem	nent Authority			
	C) National Disaster Managem	nent Agency			
	D) None of the above				
59.	Which of the following is not correctly	grouped:			
	A) Power BI B) Tableau	C) Qlik Sense D) Excel			
60.	Which of the following is incorrect rega	arding the FRS server requirements as per RDSO			
	specification No. RDSO/SPN/TC//65/2021 version 6.0:				
	i) It shall be of minimum 16 cores in Single Processor				
	ii) RAM memory size should be	e of 32 GB or higher			
	iii) GPU card should be availab	ole.			
	iv) Minimum of 4 number of car	meras should be connected to one server.			
	A) All of the Above B) only i & ii C)	only i, ii & iii D) None of the above			
61.	As per Indian Railways Schedule of D	Dimensions (Revised 2022), minimum horizontal			
	distance from centre line of track to co	olumn, lamp or similar isolated structure such as			
	CCTV/CGDB poles & fixtures from 30	5mm above platform level to 3705mm above rail			
	level on passenger platform is				
	A) 2135mm B) 2360mm C	C) 4720mm D) 6250mm			
62.	The maximum length of RS485 cable	used in IPIS should be			
	-	 C) 500m D) 15m			
63.	Accounts department stock verification	n for stores with imprest holder are checked once			
	in				
	A) 3 years B) 2 years	C) 1 year D) Six months			
64.	shall provide Ethernet and option	cal connectivity for data communication between			
	both CPUs of CDC and Display board				
	A) Central Data Switch B) RMS				

65.	Which of the following is/are good cable managemen	it practice at station buildings .
	(i) Using cable troughs and cable trays	D. C.
	(ii) Tagging/labelling of cables	, J
	(iii) Using cable glands and multi cable transit	whereever required.
	(iv) Laying of cables neatly, securing cables wi	th cable ties and filling up of holes
	using silica gel etc.,	
	(v) Documentation of cable layouts, connection	ns and termination details
	(vi) Releasing of old and unwanted cables	e e
	A) (i) & (ii) B) (i) to (iii) C) (i) to (iv)	D) All of the above
66.	Remote Control circuit is used forsystem	
		alogger D) Traction Loco
67.	In digital cable fault locator, mode is used to	find out open/ short circuit fault?
	A) Low insulation B) Insulation	
	C) Pulse echo reflection D) Foreign p	
68.		ays the coach composition of the
	train?	
	A) At a Glance B) Coach Guidance C) Platfo	
69.	•	*
	Indian Railways stipulates the Li-ion/Ni-MH battery s	
	A) 2200mAh B) 3200mAh C) 2300mA	
70.		
	A)1.75 CMs B) 2.54 CMs C) 3.75 CM	
71.		
70	A) 255.0.0.0 B) 1.0.0.127 C) 127.0.0.	
72.		
	A) Standard connector B) Lucent co	
70	C) Ferrule connector D) Rack cor	inector
73.		noutral
	A) Neutral & earth B) Phase & C) Phase & earth and phase & neutral D) phase &	
74.		
77.	station area	distance of every
	A) 20 B) 25 C) 30	D) 50
75.		
. 5.	(i)GPS receiver (ii) Power Supply Unit (iii) LED dis	
	A) (i) & (ii) B) (i), (ii) & (iii) C) All of the above	



76.	STP cable is used for
	A) PA system wiring B) Auto phone connection
	C) Selective calling phone D) IB phone connection
77.	Maximum loop resistance of 0.9mm dia 6 quad cable is ohms
	A) 28 B) 56 C) 64 D) None of these
78.	An L2 switch transfers the packets/frames to destination based on
	A) IP address B) MAC address
	C) Both IP & MAC address D) Broadcasting of packets
79.	Railway control communication circuits are oftype circuits
	A) Point to point B) Party to line C) Omnibus D) All the above
80.	The principle of OFC working is
	A) Total internal reflection B) Reflection
	C) Refraction D) Diffraction
81.	Tools required for crimping CAT6 cable and testing are:
	(i) RJ45 plugs
	(ii) RJ45 crimping tool
	(iii) Wire cutter
	(iv) Wire stripper
	(v) LAN tester
	A) All of the above B) (i), (ii), (iii) C) (i), (ii), (iii), (iv) D) None of these
82.	In a VSS, ONVIF defines interoperability between Video Management
	Software/NVR and SD (memory) Card in the Camera.
	A) Profile 'E' B) Profile 'F' C) Profile 'G' D) Profile 'H'
83.	Insulation resistance of quad cable shall be tested with Insulation Tester after
	completion of initial jointing of cables in a block section:
	A) 500 V B) 100 V C) 200 V D) 50 V
84.	As per the Telecom Manual -2021, Emergency telephone socket posts shall be painted
	with alternatively
	A) Black and White paints of 15 cms strips
	B) Black and yellow paints for 20cms strips
	C) Yellow and white paints for 15cms strips
	D) Red and Black paints for 20cms strips

85.	What are the passenger amenities provided by the Telecom Department at stations:			
	(i) PA announcement System (ii) Train Information Display Boards			
	(iii) GPS Clocks iv) Wifi (v) Signages (vi) Lifts and escalators			
	A) All of the above B) (i), (ii) & (iii)			
	C) (i), (ii), (iii) & (iv) D) (i), (ii), (iii), (iv) & (v)			
86.	In webfill mux, the station ID is set in which module?			
	A) NIM B) Tributary C) Motherboard D) Subscriber			
87.	Which of the following related to IP Based Integrated Passenger Information System			
	(IPIS) RDSO/SPN/TC/108/2019, Ver1.0 is/are incorrect:			
	(i) Central Data Switch (CDS) provides Ethernet and optical connectivity for data			
	communication between both CPUs of CDC, PDC and Display boards			
	(ii) Platform Data Controller shall drive Platform display boards, At-a-glance			
	display boards and Coach guidance display boards.	7		
	(iii) Remote Monitoring Server facilitates, remote monitoring of the IPIS system			
	(iv) It is integrated with NTES but not with Common Alerting Protocol (CAP) based			
	Integrated Alert System			
	A) None of the above B) Only (iii) and (iv) C) Only (iii) D) Only (iv)			
88.	mic is suitable for outdoor meetings.			
	A) Condenser B) Dynamic C) Carbon D) Universal			
89.	DMTR should be verified and signed by store in charge SSE			
	DMTR should be verified and signed by store in charge SSE  A) Once in week B) Once in fortnight C) Once in month D) Once in year			
89. 90.	DMTR should be verified and signed by store in charge SSE  A) Once in week B) Once in fortnight C) Once in month D) Once in year  PAC means?			
	DMTR should be verified and signed by store in charge SSE  A) Once in week B) Once in fortnight C) Once in month D) Once in year  PAC means?  A) Party Assurance certificate B) Proprietary Article certificate			
90.	DMTR should be verified and signed by store in charge SSE  A) Once in week B) Once in fortnight C) Once in month D) Once in year  PAC means?  A) Party Assurance certificate B) Proprietary Article certificate  C) Private Article certificate D) Preparatory Assurance certificate			
	DMTR should be verified and signed by store in charge SSE  A) Once in week B) Once in fortnight C) Once in month D) Once in year  PAC means?  A) Party Assurance certificate B) Proprietary Article certificate  C) Private Article certificate D) Preparatory Assurance certificate  Normal notice period for calling open tenders?			
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90. 91. 92.	DMTR should be verified and signed by store in charge SSE  A) Once in week B) Once in fortnight C) Once in month D) Once in year  PAC means?  A) Party Assurance certificate B) Proprietary Article certificate  C) Private Article certificate D) Preparatory Assurance certificate  Normal notice period for calling open tenders?  A) 30 Days B) 45 Days C) 21Days D) 14 Days  Non performing contract can be terminated after issuing and notice?  A) 21 days & 48 Hrs B) 15 days & 24 Hrs  C) 15 days & 48 Hrs D) 7 Days & 48 Hrs			
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96.	Identify the incorrect statement				
	A) Anticipated vacancies for next 12 months are considered for non-selection post				
	B) Option can be exercised within One Month for fixation of pay on promotion				
	C) For Group 'C' selections, the minimum residency period in lower grade is 2 years of				
	Continuous se	rvice			
	D) If employee	e refuses promotion, he	will be debarred f	from promotion for a period of	
	24 months				
97.	Time limit for	submission of claim	of travelling allo	owance (TA) is days	
	succeeding the date of completion of journey?				
	A)30	B) 60	C) 90	D) 120	
98.	All representat	ions against adverse re	emarks in APAR sh	nould be submitted within	
	The state of the s	from the date of receip	t of APAR		
	A) 10 days	B) 15 days	C) 30 days	D) 60 days	
99.	Who is the cor	npetent authority to per	mit changes in HC	ER classification?	
	A) Principal Ch	nief Personnel Officer	B) General ma	anager	
	C) Divisional R	Railway manager	D) Senior Div	isional Personnel manager	
100.	Who is the cor	npetent authority to app	prove 3 <sup>rd</sup> chance to	o ward/widow for appointment	
	on compassion	nate ground?			
	A)GM	B) AGM	C) PCPO	D) DRM	
101.	Which of the fo	ollowing languages is no	ot listed in the 8th	schedule of the Constitution?	
	A) Mythili	B) Bhojpuri	C) Santhali	D) Bodo	
102.	Which of the fo	ollowing is true for Regi	on B as per the Of	ficial Language Rules.	
	A) It includes 4	states out of which on	e is Chhattisgarh		
	B) 4 states and	d 3 UTs			
	C) 3 states and				
	D) Tamil Nadu is in Region B				
103.		pansion for OLIC used		official language	
	A). Official Language Implementation Council				
		guage Implementation		g g	
		nguage Implementation	Commission		
104	D). None of the		on Official Langu	000°	
104.	vviio prepares	the Annual Programme	e on Oniciai Langu	aye!	
	A) Ministry of	Education	B) Ministry of F	inance	
	C) Ministry of I	Home Affairs	D) Ministry of F	Railways	

105.	Which part of the Constitution conta	ains provisions regarding Of	ficial Language
	A). Part XVII (B). Part XVI (C	). Part VII (D). Part XII	
106.	What is the period for holding the m	neetings of the Official Langu	uage committee
	constituted in Central government of	offices?	
	A) Once in 3 months	B) Once in 6 months	
	C) Once in a year	D) Once in 2 years	
107.	Which of the following statement	s is/are incorrect regarding	g "Rajbhasha Gaurav
	Puraskar Yojna" by Department of	official language	
	i) Author /co author can be Citize	en or non-citizen of India	,
	ii) This award will be given for or	iginal/translated book in Hind	di
	iii) This award will be given only	for original book written in H	indi
	iv) The subjects should be on Kr	nowledge , science based, fo	orensic science, police,
20	Criminology Research, Poli	ice Administration, Culture, F	Religion, Arts, Heritage
	and in the field of Law.		
	A) i B) ii	C) iv	D) i & ii
108.	When will an employee become el	igible for Cash Award after	passing Regular Hindi
	Examinations?		
	A) get above 35% in written	B) get above 45%	in written
	C) get above 55% in written	D) get above 60%	in written
109.	Who was the Chairman of the Com	mittee of Parliament on Office	cial Language in
	1976?		
	A) Sri. Govind Vallabh Pant	B) Sri Charan Singh	
	C) Sri. B G Kher	D) Sri. Om Mehta	
110.	How many Loksabha and Rajya Sa	abha members shall be there	e in the Parliamentary
	Committee on Official Language?		
	A) 10 and 20 B) 15 and 15	C) 20 and 10 D	) 20 and 20

----END-----