SYLLABUS FOR LIMITED COMPETITIVE DEPARTMENTAL EXAMINATION AGAINST 33% QUOTA FOR PROMOTION TO SDE(T) GRADE

Paper-I: **Advance Technical Paper (General)**
(Objective Type)

Maximum Marks 100

SECTION –I **40 Marks**

A. DIGITAL SWITCHING

5 Marks

a) **Intelligent Network and Services:** Overview of Intelligent Network architecture and functions of SSP, SCP, SMP, IP etc., Various types of IN services, Access codes for various IN services etc.

b) **Signaling Systems including CCS#7:** Various signaling systems being used in the department for local and trunk network such as E/M, R2 modified, CCS#7 etc.

5 Marks

c) **ISDN:** Overview of OSI layer, ISDN introduction and services, customer premises equipment etc.

d) **Long Distance Switching:** Overview of national switching/numbering/charging/ transmission and signaling/synchronization plans.

5 Marks

e) **E-10B Switching System:** Introduction to E-10B system, Description of links, connection units, time base, switching network, control units etc., Call set up procedures, OMC hardware/software, OMC restart/system regeneration/system saving, Periodic tasks, LOCAVARs, subscriber features, Exchange maintenance.

5 Marks

f) **C-DOT Digital Switching System (MAX):** Overview of CDOT (MAX) Switching System, Hardware architecture, Functional description of various subsystems, Call set up procedures, Subscriber facilities, Maintenance procedures.

5 Marks

g) **EWSD Switching System:** Overview of system architecture, Description of various functional units like DLU, LTG, SN, CP, MB. CCG, SYP, CCNC etc., Call Set up procedures, CCS#7, EWSD Operations, EWSD Maintenance Philosophy, Emergency Concepts.

5 Marks

h) **5 ESS – 2000 Switching System:** Basic characteristic & functions of 5ESS switch, Description of SM, SM2000, CM & AM, RSM, Access Interface Unit (AIU), Call set up procedures, Implementation of CCS#7 and ISDN in 5ESS, Routine maintenance.

5 Marks

i) **OCB-283 Switching System:** OCB-283 system overview, Description of various units viz. SMC, SMA, SMT, STS, SMX, SMM, token ring and CSN, Call set up procedures, OCB-283 operations, OCB-283 maintenance procedures.

5 Marks

j) **AXE-10 Switching System:-** AXE-10 system overview, Description of various subsystems viz. Central Processor Subsystem (CPS), Regional Processor Subsystem (RPS), Input-Output Group (IOG-11B), Subscriber Switching Subsystem (SSS), Group Switching Subsystem (GSS), Trunk and Signaling Subsystem (TSS), Common Channel Signaling Subsystem (CCS), SUS, TCS, CHS & OMS, Call handling, System maintenance philosophy.

SECTION –II (40 Marks)

B TRANSMISSION AND NEW SERVICES

a) i) Optical Fibre Cables And Systems: (10 Marks)

Basic Concepts of optical communication, Optical fiber cable characteristics and Design features like multimode and single mode fibres, Dispersion, attenuation, optical fibre design (96 fibre cable), various types of optical sources and detectors, Survey and cable laying, Route index diagram, Tests and measurements on Optical Fibre Cable like OTDR, DTA, Power meter etc., Basic Concepts of PDH (2, 8, 34, 140 MB Systems), SDH (STM-1/4/16 systems), DWDM Systems.

ii) Microwave And Satellite:

Microwave Line of sight propagation, Path Loss, Frequency Band and capacities of Digital Microwave System, Hop distance, Noise Figure. Overview of Satellite Communication, History and Evolution, Frequency bands used for Satellite Communication, C and Ku bands, Geostationary satellites and satellite orbits. G/T Ratio, Antenna characteristics, VSATs, IDRs and DCME Data Rates.

b) GSM, WLL (CDMA and CorDECT) (10 Marks)

i) GSM:

Brief History of GSM, GSM Architecture containing the nodes likes BTS, BSC, MSC, VLR, HLR, and OMC etc. Cellular Concept, Radio Frequency Management, Mobile Handsets, GPRS and its Network Elements.

ii) WLL (CDMA and CorDECT)

CDMA: Multiple Access Methods, Spreading Techniques, Frequency Spectrum of CDMA, Channel Architecture of CDMA, Application of CDMA Technology in BSNL network.

CorDECT: DECT standard, DIU and CBS system capacities, Frequency band, coverage range, Internet bit rates.

C) Internet and Broadband (10 marks)

Data communication concepts-Packet switching & Circuit Switching; OSI Layered Model; Physical layer – Physical layer Interfaces and standards-V35, V24, G703, HSSI etc, ; Datalink Layer – Datalink Layer protocol, DLC, HDLC, PPP, LAN & Ethernet Technologies; Network Layer Protocols-IP, ARP, RARP, ICMP & IGMP; IP Addressing; Transport Layer Protocols-Connection oriented and connection less protocol, TCP, UDP; Internet routing Protocols-RIP, OSPF, BGP; Internet Applications-HTTP, DNS Telnet, FTP, SMTP etc; Subscriber access Mechanisms-Modem Theory, HDSL Modems, Leased Line and Dialup Access etc. Broadband Access technologies-xDSL Technilogies, DSLAM & ADSL Modems, BRAS, Tier-I & Tier-II switch, DMT Modulation technique, PPPoE

Basics of WiFi & WiMAX

D) Computers, Computer Networks And Application Packages (10Marks)

i) Computer Fundamentals: Fundamentals of Personal Computers use of Windows Operating System & Introduction to software packages like MS Word, MS Excel and MS Power Point. Use of Internet for office work like e-mail, web browsing etc. The features of Linux Operating System, Linux file system, Basic and Advanced Commands, Graphical User Interface (KDE & GNOME), Open Office.

ii) WEB Technologies: Creation of Static Web Page, which includes the designing, and developing of Static Web pages using HTML coding and FrontPage.

iii) Networking: Internet Protocols, Network Components and Architecture, IP Addressing and Sub-netting, Network Operating System, Active Directory, DHCP, DNS, Client configuration.

iv) RDBMS; RDBMS Concepts, SQL, SQL*Plus and PL/SQL.

v) BSNL Software Application: Familiarization with various departmental applications like DOTSOFT, BRMS, HR package etc.

SECTION - III

E) ACCESS NETWORKS 20 Marks

Basics of Jelly Filled Cables and fault location in copper cable network, construction and maintenance of DP and DP dressing, installation of drop-wire, pole-less external plant network, PCM principles, and overview of DLC and overview of MLLN.

Broadband access – copper based access, ADSL Technologies, DSLAM.

Earthing of Telecom Systems, Maintenance of Battery, Power Plants and UPS, Fire Protection Systems, Types, Use & Mtce. Schedule. Basic Mtce. Of EA Sets and Air-conditioning Units, Trunk IVRS.

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Paper-II: Advanced Technical Paper (Special) **Maximum Marks 100**

(A candidate can select only one of the seven subjects i.e. A,B,C,D,E,F &G while applying for LDCE)

A. SWITCHING

1. Intelligent Network and Services 10 marks

Basic concepts of Intelligent Network architecture, Functions and role of SSP, SCP, SMP, IP etc., Description of various types of IN services and call flow, Access codes for various services.

2. Signaling Systems including CCS#7 10 marks

Various signaling systems being in the department for local and trunk network such as E/M, R2 modified, CCS#7 etc, Concepts of CCS-7 signaling including signaling point (SP), Signal transfer point (STP), Layered structure with reference to OSI-layer architecture, Description of MTP, ISUP, SCCP and TCAP 3, Application of No.7 signaling in PSTN, ISDN, IN and Mobile telephony.

3. ISDN 5 marks

Review of OSI layer, ISDN introduction and services, Customer premises equipment, ISDN implementation strategies etc.

4. Long Distance Switching 5 marks

Details of national switching/numbering/routing/charging/transmission and signaling/ synchronization plans.

5. Earthing etc. 10 marks

Earthing of Telecom systems, Maintenance of Battery and Power Plants, Fire protection systems-types, use and maintenance schedule, basic maintenance of EA sets and air-conditioning units.

6) E-10 B Switching System 10 marks

Introduction to E-10B system, Description of links, connection units, time base, switching network, control units etc., Call set up procedures, OMC hardware/software, Man-machine communication, OMC restart/system regeneration/system saving. Peripheral management, Subscriber Management, Traffic administration, Trunk administration, Routing administration, Billing management, Faults & alarms management, Periodic tasks, LOCAVARs, Subscriber features, Exchange maintenance, Installation & commissioning activities, A/T procedures, Documentation, Use of various testers, Exchange service quality tests.

7). CDOT Digital Switching System (MAX) 10 marks

System configuration & Features, Hardware architecture, installation practices, Software overview, Equipment planning, Man machine communication, Call processing, Subscriber facilities, Exchange administration, Subscriber administration, Routing administration, Trunk administration, Traffic administration, Billing administration, Patch administration, Maintenance procedures, Alarms and reports and System reconfiguration.

8). EWSD Switching System 10 marks

Overview of system architecture, Description of various functional units like DLU, LTG, SN, CP., MB, CCG, SYP, CCNC etc., Call set up procedures, CCS#7, Application Program System Administration, Subs Administration, ISDN Administration, V5.2, Routing Charging Administration including IACHASTA, Traffic Administration, Network Administration, Physical Installation, APS Loading, Commissioning, A/T, Planning & Dimensioning, Documentation, EWSD Maintenance Philosophy, Line & Trunk Testing, Emergency Concepts, Concept of Telecom Assistance Centre, Charge Band Concept in CCS#7, Patch Implementation Procedures.

9) 5ESS -2000 Switching System 10 marks

Basic characteristics & functions of 5ESS switch, Description of SM, SM2000, CM & AM, RSM, Access Interface Unit (AIU), Call set up procedures, Implementation of CCS#7 and ISDN in 5ESS, Documentation structure and use of Master Control Centre, Subscriber and PBX data, Human/machine interface, Reports and alarm handling, Trunk and line maintenance, Routine maintenance, System back up, ODD recent change for trunks and line, 5ESS-2000 database, Analysis of system reports, initialization and recovery, Traffic measurement reports, Installation and commissioning activities, Testing methods, A/T procedures.

10). OCB-283 Switching System 10 marks

OCB-283 system overview, Description of various units viz. SMC, SMA, SMT, STS, SMX, SMM, token ring and CSN, Call set up procedures, CCS#7, OCB-283 system software, OCB-283 operations, Man- machine commands, system administration, Subscriber administration, Routing administration, Charging & Billing administration, Traffic management, Network management, Planning & dimensioning issues, Physical installation and commissioning activities, A/T procedures, OCB-283 maintenance procedures, Path implementation methods.

11). AXE-10 switching System 10 marks

AXE-10 system overview, Description of various subsystems viz. Central Processor Subsystem (CPS), Regional Processor Subsystem (RPS), Input-Output Group (IOG-11B), Subscriber Switching Subsystem (SSS), Group Switching Subsystem (GSS), Trunk and Signaling Subsystem(TSS), Common Channel Signaling Subsystem (CCS), SUS,TCS,CHS & OMS, AXE-10 software organization, Call handling, Documentation, I/O handling, Planning and dimensioning, Installation and testing activities, Construction practice, Management of exchange data related to hundred groups. A-number and B-number analysis, routes, routing, Charging, destination codes, EOS codes etc., Installation test of GSS, SSS,TSS, CCS, RPS/EMS, Start up & test of IOG-11B,Start up and test of APZ 212, Initial loading of APG, User authority management (password management) Connection of ats, management of announcements, Operational quality measurement, A/T procedures, Use of testers, System maintenance philosophy, Subscriber management, Subscriber management, Maintenance of subscriber lines, trunks, hardware of SSS,GSS,RPS/EMS,IOG-11B & CPS, Handling detailed billing data, call meters, system restart, reload & back up, Command & transaction logs, traffic and service measurements.

B TRANSMISSION 100 Marks

OPTICAL FIBRE COMMUNATION 55 marks

Basic concepts and principles of optical communication. Optical fiber cable characteristics and Design features like multimode and single mode fibers. Graded Index Fibers, Dispersion, attenuation, optical fiber design(96 fibre cable), various types of optical sources and detectors, survey and able laying practices, route index diagram, link engineering, Tests and measurements on O.F. cable, functioning of various meters, their applications and operations like OTDR, DTA, Power meter etc.; Concepts of PHD Hierarchal MUX systems like 2,8,34, 140 MB systems, Basic concepts of SDH, Various types of SDH systems (STM-1/4/16 systems), SDH Multiplexing techniques, SDH Network Elements & Topology, Network Survivability, SDH Measurements faults and alarms through NMS, LCT, Element Manager, Synchronization of SDH network and measurement and synchronization, Basic concepts and advantages of DWDM systems, DWDM components like laser, detector, Transponders and Optical Amplifiers, DWDM testing-optical analyzer, A/T of OF system.

MICROWAVE: 25 marks

System design objectives, CCITT and CCIR standards, Planning and designing of multichannel microwave system, Choice of Antennas, Wave guide, Ducting, fading and fade margin, Path Loss, Multipath fading, Microwave devices, travelling wave tube(TWT) Klystron, Semiconductor, devices, engineering order wire supervisory protection switching and remote controls. Measurements of power and frequency, noise figure, group delay, Noise power and ratio measurement, standing waves ratio measurement amplitude and frequency response, Equalizers, Microwave site survey and selection, Tower Height Calculation, Critical Tower Height and Block Schematic of high capacity Microwave system. SACFA clearance, A/T of 6 Ghz and 2Ghz systems.
Frequency bond and capacities of Digital UHF systems, Hop distance.

SATELLITE: 10 marks
Overview of satellite communication, History and evolution, Frequency Bands used for satellite Communication, C, Ku and Ka bands, GEO and Non-GEO satellite orbits and systems, INSAT satellite system-purpose and evolution, Space Segment Attitude and orbit control, Earth Station Configuration and parameters, Antenna Characteristics, LNA and HPA – Types and characteristics Inter-modulation products and back off, relative comparison of SSPA and TWT power amplifier, elements of Satellite link engineering, C/N and BER, Bandwidth and power considerations, Need for VSAT communication, VSAT applications – MCPC VSAT, HVNET, Intermediate Data Rate and Degital Circuit Multiplexing equipment

Miscellaneous 10 marks
Earthling of Telecom. Systems, Maintenance of Battery and Power Plants, Fire protection systems – type use and maintenance schedule, basic maintenance of EA sets and air-conditioning units, PCM principles and Digital transmission concepts.

C. GSM **100 Marks**

Overview of GSM Architecture 15 marks
Brief history of development of Mobile Communication, Description of GSM Architecture Functions of various Network elements of GSM likes BTS, BSC, MSC, VLR, HLR and OMC etc. Role of IMSI, TMSI, IMEI MSRN.

Security Features in GSM: 05 marks
Security arrangements in GSM Communication Functions of A3, A5, A8 Algorithm, Ki, Ke keys, Authentication and Ciphering functions of GSM.

RF Channel Management: 10 marks
Cell layout and frequency planning, Frequency bands and specifications for GSM-900 system, Multiple Access Methods – FDMA & TDMA, Description of Air Interfaces, like logical channels and traffic Channels, Basic steps in call setup like connection request, IMSI attach and IMSI detach, Functions of Handovers and Frequency Hopping during conversation.

GPRS/EDGE/IMT-2000 10 marks

Brief description of GPRS Architecture and its Network Elements, Key Features and Objectives of IMT – 2000. Migration path from 2G to 3G, GSM to WCDMA. Future Trends in Mobile Communication.

GSM Billing concept: 10 marks

Billing concept in GSM network for pre-paid and post-paid systems. Role of Mediation of CDRs in Billing System. Brief description of various servers in Billing system. Activation of services and facilities in Subs. Mobile.

GSM Services : 10 marks

Description of GSM services like Bearer Services, Tele Services and Supplementary Services, Short Message Services(SMS), Value Aided Services (VAS) like Mobile Messaging, Mobile Internet, Mobile IN Services, configuration of mobile handset for use of value added facilities and GPRS and EDGE features.

Miscellaneous: 10 marks

Earthling of Telecom. Systems, Maintenance of Battery and Power Plants, Fire protection systems-types use and maintenance schedule, basic maintenance of EA sets and air-conditioning units.

GSM Technology; 30 marks

Functionalities, Interconnection & configuration of MSC, BSC, BTS. Abis and A link dimensioning, Engineering, Planning & Traffic Measurements. GSM Signaling Model, Um Interface, Abis interface. A interface, location, Update, Handover, Description of NSS measurement & Statistics.

D. WLL(CDMA and CorDECT) 100 Marks

Cellular Concepts, Multiple Access Techniques, Duplexing Method, Frequency Band used in CDMA, Channel list. 10 marks

Spread spectrum communications and its types, DSSS as used in CDMA cellular systems, codes used in CDMA and their functions, PN offset, Power Control, Soft hand Off, System Capacity, Rake receives, Multi-path Advantage, Processing Gain and Spreading Rates. 15 marks

IS-95 A and CDMA 2000 1 x standards and their features, System Architecture, Network elements – BTS, BSC, MSC, HHTs and FWTs PCF Functionality, Elements of Packet Switch core network – PDSN, AAA server etc. 20 marks

RF Channel Architecture of IS-95 A, Channel coding and spreading rates, Modulation Methods, Functions of each channel, call flow, HHT and FWT programming parameters, SID, NID, Channel no. etc. 15 marks

CDMA RF Planning basics, Various planning parameters – Eb/No. Ec/It FER, Frequency Reuse Factor, Sectorization Gain, Voice Activity factors, cell loading factor, cell

breathing, cell capacity and coverage aspects, BTS coverage tests – VSWR Test, RF power measurement and spectrum analyzers, A/T and billing. 15 marks

Variants of CDMA – CDMA 2000 1xEVDo, WCDMA – features CDMA and GSM – brief comparison. 05 marks

CorDECT; 10 marks
Cor-DECT system architecture, various sub-systems of Cor-DECT system and their functions, DIU, CBS, BSD, RBS, FRS functions and features, Frequency spectrum for cor-DECT, no. of carriers and carriers spacing, Access Method, Frame structure, DCS, Internet Access through cor-DECT, Access procedure and available bit rates, A/T of cor-DECT system.

Miscellaneous: 10 marks
Earthing of Telecom. Systems, Maintenance of Battery, Power Plants and UPS, Fire protection systems-types use and maintenance schedule, basic maintenance of EA sets and air-conditioning units.

E. INTERNET AND BROADBAND **100 Marks**

Packet Switching & Circuit Switching , OSI Model & TCP/IP Model, Physical Layer standards – V 35, V 24, G703, HSSI etc. 10 marks
Datalink layer Protocols – DLC, HDLC, PPP etc. PAP, CHAP, LANs & VLANs;
Ethernet, FastEthernet and GigabitEthernet standards, CSMA-CD and switched Ethernet network, collision Domain and Broadcast Domain, Switched Ethernet Backbones. 20 marks
Network Layer Protocols- IP, ARP, RARP, ICMP, IGMP, IP Addressing, VLSM, CIDR, Routers and routed networks, IP Routing Principles, Static Routings, Default Routing and Dynamic Routing ; Dynamic Routing Protocols – RJP, OSPF, BGP etc. 20 marks

Transport Layer Protocols – TCP,UDP 05 marks
Multiprotocol Level Switching(MPLS) – MPLS Label Distribution Protocol (LDP), QoS in MPLS Networks, Traffic Engineering in MPLS Network, RSVP 10 marks

MPLS Based VPNs – Virtual Private Networks(VPNs), MPLS based Layer 3 VPNs MPLS based Layer 2 VPNs. 10 marks

Broadband Access technologies x DSL Technologies, DSLAM & ADSL Modems, BRAS Tier I & II switch, DMT Modulation Technique, PPPoE. 10 marks

WiFi & WiMAX; 05 marks
Miscellaneous Earthing of Telecom. Systems, Maintenance of Battery, Power Plants and UPS, Fire protection systems-types use and maintenance schedule, basic maintenance of EA sets and air-conditioning units 10 marks

F. **COMPUTERS, COMPUTER NETWORK AND APPLICATION PACKAGES;**
100 Marks

COMPUTER FUNDAMENTALS 15 marks

Fundamentals of Personal Computers, use of Windows, Operating System, Introduction to software packages like MS word, MS Excel and MS Power point. Use of Internet for office work like e-mail, web browsing etc; features of linux operating system,. Linux file system, basic and Advanced Commands, Graphical User Interface (KDE & GNOME) Open Office.

WEB TECHNOLOGIES 15 marks

Creation of Static Web Page, which includes the designing and developing of Static Web pages using HTML coding and FrontPage, Image processing tool such as Adobe Photoshop, Web-site Designing containing Dynamic Web Pages, Active Server pages (ASP), VB Script, Java script, Connectivity of the front end web applications (ASP & Java script) with the back end database applications, Hosting of Websites.

NETWORKING 25 marks

Internet Protocols, Network Components and Architecture, IP Addressing and Sub netting, Network Operating system, Active Directory, DHCP, DNS, Client configuration and User /Group Creation, Sharing of Network Resources, Disk Quota, WLAN, Proxy server, Firewall.

Network Security Issues, Various types of attacks and their counter measure, Various Security products like Firewall, Antivirus software, IDS, Vulnerability Assessments and Penetration Testing.

RDBMS; 20 marks

RDBMS Concepts, SQ, SQL*Plus and PL/SQL

Oracle Architectural Components, Maintaining an Oracle Instance, Creating a Darabase, Data Dictionary contents and Usage, Maintaining the Control File, Maintaining Redo Log files, Managing Tablespaces and Data Files, Storage structure and Relationships Managing Undo Data, Managing Tables, Managing Indexes, Managing Data Integrity, Managing Passwords Security and Resources, Managing Users, Managing Privileges, Managing Roles, Oracle Recovery Manager.

BSNL Software Applications 15 marks

Familiarization with various departmental applications like DOTSOFT, BRMS, HR package etc.

Miscellaneous 10 marks

Earthling of Telecom. Systems, Maintenance of Battery, Power Plants and UPS, Fire protection systems-types use and maintenance schedule, basic maintenance of EA sets and air-conditioning units

G. EXTERNAL PLANT AND ACCESS NETWORKS

100 marks

WLL – Overview of CDMA, CorDECT, installation and maintenance of FWTs and CPE. 15 marks

Mobile – Overview of GSM, GPRS and EDGE, configuration of mobile handset for use of value added facilities and GPRS and EDGE features. 15 marks

Fibre- PCM principles, Fibre laying practices, basics of SDH,ADM,SDH rings, FTTH, DLC and MLLN 15 marks

Radio freq. planning for mobile and WLL technologies , siting consideration for BTS 05 marks

Broadband access-Copper based access, ADSL technologies, DSLAM 15 marks

JF cables, construction practices for cable external plant, siting of cabinets and pillars, monsoon precautions, preventive and reactive maintenance of external plant, fault location, Pole-less networks, optimization of External plant, computerized maintenance of records. 20 marks

Measurements – OTDR, DTA set, frequency counters , NEXT/FEXT measurement, Line parameters testing, jitter, BER parameters. 05 marks

Earthling of Telecom. Systems, Maintenance of Battery, Power Plants and UPS, Fire protection systems-types use and maintenance schedule, basic maintenance of EA sets and air-conditioning units 10 marks

APPLICATION FOR APPEARING IN THE LIMITED DEPARTMENTAL COMPETITIVE EXAMINATION FOR PROMOTION TO THE GRADE OF SUB DIVISIONAL ENGINEER (TELECOM) (33% QUOTA) SCHEDULED TO BE HELD IN _____.

1.	Name of the Candidate and present designation	:
2.	Father's Name	:
3.	Date of Birth	:
4.	Year of Recruitment as JTO (as allotted on appointment)	:
5.	Date of joining in JTO grade on regular basis	:
6.	Circle to which belongs	:
7.	Office of present posting	:
8.	Centre of Examination desired	:
9.	Vacancy year(s) eligible and Being applied for :	: 2006-07 : 2007-08
10.	Write Category to which he/she belongs to (SC/ST)	:
11.	Whether he/she wants to write the answers in Hindi or English	:
12.	Whether the officer is working as regular SDE(T). If so, the mode of promotion (promotion quota or competitive quota) and Reference No. and date of issue of promotion order .	:
13*	Name of subject to be selected for Paper II: i.e Advanced Technical (Special)	:

***The applicant will have to opt one subject among the Seven subjects i.e Switching, Transmission, GSM,WLL (CDMA & CorDECT, Internet and Broadband, Computers, Computer Network and Application Packages and External Plant and access Network) of Paper II and accordingly question paper on that subject will be provided to the candidate in exam as opted & indicated above at S. No 13.**

I solemnly declare that the information furnished above is correct to the best of my knowledge.

Signature of the Candidate

Date:

I recommend that Shri _____, Junior Telecom. Officer/SDE(T), who fulfills the condition of eligibility prescribed in BSNL Circular No. 20-24/2001-Pers.II dated 28.2.2002 and corrigendum No. 20-1/2001-Pers-II dt. 17.7.2002 ,23.10.2006& 30.7.2007 may be permitted to appear in the Examination.

(Signature, Date & Seal of Forwarding Authority)

Certified that the above entries made by the candidate have been verified and he/she is eligible for appearing in the Sub Divisional Engineer (Telecom) (33% quota) Limited Departmental Competitive Examination for the vacancy year/vacancy years _____.

Signature, Date & seal
Of designated Officer (STS rank of ---------- Circle office)

IMMEDIATE

APPLICATION FOR APPEARING IN THE LIMITED DEPARTMENTAL COMPETITIVE EXAMINATION FOR PROMOTION TO THE GRADE OF SUB DIVISIONAL ENGINEER (TELECOM) (33% QUOTA) SCHEDULED TO BE HELD IN _____.

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5.	Date of joining in JTO grade on regular basis	:
6.	Circle to which belongs	:
7.	Office of present posting	:
8.	Centre of Examination desired	:
9.	Vacancy year(s) eligible and Being applied for :	: 2006-07 : 2007-08
10.	Write Category to which he/she belongs to (SC/ST)	:
11.	Whether he/she wants to write the answers in Hindi or English	:
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Signature, Date & seal
Of designated Officer (STS rank of ---------- Circle office)

IMMEDIATE