

**MOST IMPORTANT**



**No.2-16/2013-Pers-II**  
**BHARAT SANCHAR NIGAM LIMITED**  
[A Government of India Enterprise]  
CORPORATE OFFICE  
PERSONNEL -II SECTION

102-B, Statesman House, 148, Barakhamba Road, New Delhi-1.

December : 10 , 2014

To

All Heads of Telecom Circles  
All Heads of Telecom Projects/Regions  
All Heads of Maintenance  
CGM BRBRAIT, Jabalpur/CGM, ALTC  
CGM, Kokatta Telephones/Chennai Telephones  
CGM ,QA/IN/IT/CTS Kolkatta/TF-Mumbai,Jabalpur,Kolkatta  
CGM NCES/BBNW/NETF  
Bharat Sanchar Nigam Limited

**Subject:- Limited Departmental Competitive Examination for promotion to the grade of Sub Divisional Engineer (Telecom) for vacancy years 2010-2011 onwards under 33% quota. -Regarding circulation of syllabus, Scheme, and minimum pass marks.**

Sir,

I am directed to refer to this office letter no. of even dated 22.08.2014 and 21.11.2014, circulating there with the syllabus and scheme of LDCE for promotion to the grade of Sub Divisional Engineer (Telecom) for vacancy years 2010-2011 onward under 33% quota.

The said Syllabi after correcting necessary errors is enclosed herewith for re-circulation. The other contents of letter dated 22.08.2014 however remain the same.

This letter may be given wide publicity.

Yours faithfully,

**(SHEO SHANKAR PRASAD)**  
**ASSISTANT GENERAL MANAGER (PERS-II)**

Tel. No. 011-23037235

Encl: Syllabus of Paper I and Paper II.

Copy to:-

1. Sr.GM(Estt)/GM(Pers)/Addl(GM(Pers))/AGM(Pers-IV) Corporate Office
2. GM(Recit.)/DGM(DE)/ AGM(DE), Corporate Office – with the request to take further necessary action.
3. All GMs/DGMs, BSNL Corporate Office.
4. Director(Staff)/US(SGT), DoT, Sanchar Bhavan, New Delhi.
5. M/s TCIL, /BBNL, New Delhi
6. All Unions/Associations concerned.
7. Notice Boards
8. Spare/Guard File

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| F.No. 2-16/2013-Pers.II  |   | Annexure-"A" |
| Syllabus of LDCE for promotion of JTO(T) to SDE(T) under 33% quota |   |              |
| Paper-I (General)  |   |              |
| LIST OF TOPICS   |   |              |
| 1  | Group Performance Management System     |              |
| 2  | Leadership and Team Building            |              |
| 3  | Time Management                         |              |
| 4  | Capital Budgeting and Revenue Budgeting |              |
| 5  | Cost Management                         |              |
| 6  | Communication Skills                    |              |
| 7  | Energy Conservation and Fire Safety     |              |
| 8  | RTI Act 2005                            |              |
| 9  | Official Language Policy                |              |
| 10   | BSNL CDA Rules                          |              |
| 11   | Gender Issues                           |              |
| 12   | Customer Care, Citizen Charter of BSNL  |              |
| 13   | Sales Management                        |              |
| 14   | Services Marketing                      |              |
| 15   | Asset Management                        |              |
| 16   | Inspection and Quality of Service       |              |
| 17   | BSNL Services                           |              |
| 18   | Staff Welfare                           |              |
| 19   | Reservation Policy                      |              |
| 20   | Contractual Labour Management           |              |

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| F.No. 2-16/2013-Pers.II  |   | Annexure-"B" | -B/1 |
| Syllabus of LDCE for promotion of JTO(T) to SDE(T) under 33% quota |   |              |      |
| PAPER-II (Optional Streams)  |   |              |      |
| "CFA "- Stream   |   |              |      |
| LIST OF TOPICS   |   |              |      |
| 1  | Circuit Switching   |              |      |
| 2  | Signalling: CAS and CCS/SSTP                                      |              |      |
| 3  | POI(Point of Interconnection)                                     |              |      |
| 4  | Packet Switching  |              |      |
| 5  | Routing Principles  |              |      |
| 6  | Broadband and Multiplay   |              |      |
| 7  | IPv6  |              |      |
| 8  | Leased Lines: MPLS-VPN/MLLN                                       |              |      |
| 9  | Overview of NGN & IPTAX   |              |      |
| 10   | SIP & IMS (Session Initiation Protocol & IP Multimedia Subsystem) |              |      |
| 11   | Landline VAS  |              |      |
| 12   | CDR Billing   |              |      |
| 13   | Project UDAAN and DOSTI   |              |      |
| 14   | NGN SDH and MSPP (Multi Service Provisioning Platform)            |              |      |
| 15   | FTTH (GPON)   |              |      |
| 16   | OSI Layers  |              |      |
| 17   | LAN and VLAN  |              |      |
| 18   | ADSL  |              |      |
| 19   | Power Plant & SMPS modules  |              |      |
| 20   | Data Centres  |              |      |
| 21   | External Plant  |              |      |

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## Syllabus of LDCE for promotion of JTO(T) to SDE(T) under 33% quota

## PAPER-II (Optional Streams)

## "CM" -Stream

## LIST OF TOPICS

|    |  |
|----|--|
| 1  | GSM Mobile Communication-2G                                  |
| 2  | GPRS and EDGE  |
| 3  | GSM-3G   |
| 4  | RF Planning and Drive Test                                   |
| 5  | Mobile VAS   |
| 6  | Project Vijay  |
| 7  | Sanchar Soft   |
| 8  | CDMA 2001X and EVDO  |
| 9  | Wi-Fi and WIMAX  |
| 10 | MNP( Mobile Number Portability)                              |
| 11 | National/International Roaming                               |
| 12 | Earthing and Power Plant                                     |
| 13 | Charging and Billing in GSM/CDMA                             |
| 14 | HSDPA,LTE,LTE-A  |
| 15 | Intelligent Network in Mobile Communication                  |
| 16 | Security Features in CDMA/GSM and Lawful Interception System |



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| F.No. 2-16/2013-Pers.II  |  | Annexure-"B/3" |
| Syllabus of LDCE for promotion of JTO(T) to SDE(T) under 33% quota |  |                |
| PAPER-II (Optional Streams)  |  |                |
| "EB " - Stream   |  |                |
| LIST OF TOPICS   |  |                |
| 1  | MLLN   |                |
| 2  | MPLS VPN   |                |
| 3  | NGPN-FTTH  |                |
| 4  | MSPP   |                |
| 5  | Multiplay Broadband Services   |                |
| 6  | Enterprise Services  |                |
| 7  | New Business   |                |
| 8  | CUG and Centrex  |                |
| 9  | INFRA Sharing  |                |
| 10   | Franchisee management  |                |
| 11   | Project Smile and 3G experience zone   |                |
| 12   | Service Level Agreement types  |                |
| 13   | Optical Fibre Communications: ITU Standards, Components, Tests and Measurements, Link Budget. PCM & PDH, SDH, NGSDH, DWDM,FTTH |                |
| 14   | Microwave Communications: Basic Link Budget, Diversity, Antenna  |                |
| 15   | Satellite communications: Basics, Link Engineering, Earth Stations, VSAT,DSPT  |                |
| 16   | Earthing and Power plant   |                |
| 17   | NOFN Project.  |                |

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| F.No. 2-16/2013-Pers.II  |  | Annexure-"B/4" |  |
| Syllabus of LDCE for promotion of JTO(T) to SDE(T) under 33% quota |  |                |  |
| PAPER-II:- Common Paper  |  |                |  |
| "IT "  |  |                |  |
| <b>LIST OF TOPICS</b>  |  |                |  |
| 1  | ICT Security                             |                |  |
| 2  | Cyber Security                           |                |  |
| 3  | ERP                                      |                |  |
| 4  | Cloud Computing                          |                |  |
| 5  | Oracle Data Base                         |                |  |
| 6  | Computer Networking/LAN/WAN              |                |  |
| 7  | World Wide Web                           |                |  |
| 8  | OSI Model                                |                |  |
| 9  | Ethernet                                 |                |  |
| 10   | Multimedia Services                      |                |  |
| 11   | E-Governance/Commerce/Education/Medicine |                |  |

