



भारत संचार निगम लिमिटेड
(भारत सरकार का उद्यम)
कार्मिक शाखा, निगम कार्यालय
चौथा तल, भारत संचार भवन,
जनपथ, नई दिल्ली 110 001

No. BSNLCO-PERS/15(12)/1/2023-PERS1(Telecom)

Dated 21.12.2023

To

All Heads of Telecom Circles/Administrative Units,
BSNL.

Subject: Revision of Scheme and Syllabus of LICE for promotion to the grade of SDE(T) of Telecom Operations Stream.

The undersigned is directed to enclose herewith the revised Scheme and Syllabus of Limited Internal Competitive Examination (LICE) for promotion to the grade of SDE(T) of Telecom Operations Stream, for wide publicity among the executives of BSNL.

2. The revised Scheme and Syllabus for LICE quota promotions shall be applicable w.e.f. vacancy year 2023 and all the promotions under LICE quota for vacancy year 2023 and onwards shall be conducted as per revised Scheme and Syllabus.

This issues with the approval of competent authority.

Encl. As above.

(जी.पी.विश्वनोई/ G.P. Vishnoi)

उप महाप्रबंधक (कार्मिक-डीपीसी-एसएम)
Dy. General Manager (Pers-DPC-SM)

Copy to:

1. PPS to CMD, BSNL.
2. PPS to functional Directors of BSNL Board.
3. PPS to CVO, BSNL.
4. All CGMs/PGMs/Sr. GMs/GMs, BSNL CO.
5. All Heads of cadre controlling authorities.
6. General Secretary, SNEA/AIGETOA/SEWA.
7. OL Section for Hindi version.
8. BSNL Intranet portal.

(मूलचंद/ Mool Chand)

सहायक महाप्रबंधक(कार्मिक नीति)

Assistant General Manager (Pers. Policy)

**Scheme and syllabus for the Limited Internal Competitive Examination (LICE)
for promotion to the grade of SDE(T) of Telecom Operations Stream**

1. Scheme of Examination

1.1. The examination will consist of one paper (two sections) as given below:

Paper	Maximum Marks	Duration
(i) Written Test (Core)	120 marks (120 Questions)	3 Hrs.
(ii) Written Test (Common)	60 marks (60 Questions)	
Total	180 marks	

Note:

(a) The examination will be conducted in one shift of 3 hrs. duration.

(b) The examination will be multiple choice objective type with negative marking. For each correct answer 01 mark will be awarded and for each wrong answer (-)0.25 marks will be awarded.

1.2. Determination of final merit list:

Final merit list shall be published based on marks obtained in the written Examination. Qualifying Marks [Written test (Core) and Written test (Common) put together]: UR-50%; SC/ST-45%, PwBD-45% if sufficient PwBD candidates are not available on prescribed standards.

2. Syllabus:

2.1 Syllabus for Written Test (Core) – Telecom

Sl. No.	Topic	Topic sub-heading	Weightage (in %)
1	Wireless Business	<ul style="list-style-type: none"> • Deployment of Indigenous 4G <ul style="list-style-type: none"> • RF Planning • Spectrum Planning • Core Network • RAN(Radio Access Network) • Optimization • Monitoring of 4G Network <ul style="list-style-type: none"> • Network Management System • Self-Optimization Network • Quality of Service(QoS) • Quality of Experience (QoE) 	25
2	Wireline Business	<ul style="list-style-type: none"> • FTTH Technology/FTTH Broadband • Partner Management (TIP & System Integrator) • Wi-fi Services and Encrypted Hotspot, Enterprises Hotspot Solution • IMS Network Architecture • CDR (CRM/CLARITY) 	20

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3	Core Network Business	<ul style="list-style-type: none"> • Concept of Optical Fiber Communications • Fault Localization of OFC Network using OTDR, Power Meter, RTFMS and Ethernet Analyzer etc. • CPAN/MANN and OTN Technology Overview • Terrestrial Radio Links Viz. Microwave, RF Link • Satellite Communication Technology VSAT, DPST and INMARSAT • Transmission Media Equipment planning and installation 	20
4	Data Network/IT/Misc	<ul style="list-style-type: none"> • Cyber Security and Firewall • Fundamentals of BIG DATA, Fundamentals of Cloud Computing 	10
5	Enterprise Business	<ul style="list-style-type: none"> • EB in BSNL, formation of EB, EB structure in Corporate Office /Circle Office/ BA level • Enterprise business marketing and strategy • Sales process & sales review • Service delivery and service assurance including SLA • System integrator policy (CPNE) & CPP • EB portal overview • MPLSVPN and SDN concepts • IDC services including co-location, cloud and hosting • IOT, M2M, Bulk Push SMS, NBIOT and SaaS services 	25
			100

2.2 Syllabus for Written Test: Common

1	IT Tools	<ul style="list-style-type: none"> • MS office: Word, Excel, Power Point • E-Office • ESS workflows • ERP-SAP processes • Fundamentals of Artificial Intelligence (AI) • Cyber Security from end user perspective
2	Planning & Operation	<ul style="list-style-type: none"> • BSNL Procurement Manual • GeM, CPP, MSTC • Energy Conservation OORJA APP (Project OJAS) • BSNL Land Monetization Policy • BSNL CROP Policy
3	General Admn.	<ul style="list-style-type: none"> • RTI, PGRMS, Grievance Redressal Mechanism • Contract Management • IPMS • BSNL CDA Rules
4	Spectrum & Licensing	<ul style="list-style-type: none"> • Types of Telecom License • Basics of USO Framework • Spectrum allocated to BSNL
5	TRAI regulations	<ul style="list-style-type: none"> • Basics of TRAI QoS
6	Project Management	<ul style="list-style-type: none"> • Project evaluation (Payback / NPV/RoI) • Project Budgeting and RE/BE • Project monitoring (CPM/PERT) • Capitalization, WIP, Depreciation and Scrapping

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21.12.2023