

NOTICE

Ref: TFR:NCB:298:23-24

Dated: 13/11/2023

Sub: Syllabus and exam pattern for the post of Scientific Officer D (Senior System Engineer)
Ref: Advt No.18/2023 : Appointment of a Scientific Officer D (Senior System Engineer)
on a Permanent basis.

All the shortlisted candidates are required to appear in person for the **Preliminary Interview** scheduled on **17th November 2023 (Friday)**. The Preliminary interview will be followed by the **Second level of Interview** for the shortlisted candidates in the first level. The venue for both the stages is National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bellary Road, Bangalore 560065, Karnataka.

Examination Pattern and Syllabus:

- I) Preliminary Interview – 17/11/2023 at 10.30 hrs**
- II) Second Level Interview – 17/11/2023 at 14.30 hrs.** The final selection of the candidates will be based on the performance in the Second Level of Interview from amongst the candidates shortlisted after the Preliminary Interview.

Broad areas of syllabus are as follows:

Sl.No.	Topics/Subjects	Indicative Syllabus
1	Linux Administration and Scripting	Compilation process of open source code, Writing Scripts in BASH/python/perl, Common linux commands to search content and files/directories, Common command line text editors, trouble shooting Linux servers using command line tools and System logs, ext3/ext4/GPFS/Lustre/XFS file systems, Installing applications etc.
2	HPC administration	Parallel Computing Architectures, HPC Applications, Big Data and HPC, Storage Technologies, Distributed File Systems, Data Management and I/O Optimization, Fault Tolerance and Reliability, HPC in the Cloud, Benchmarking and Performance Evaluation, Energy Efficiency in HPC, Security in HPC Environments etc.
3	IT infrastructure management	Routers/Switches, Sub-netting, Network Management Systems(NMS), Performing Backups/Restoration on Tape media using open-source tools, Monitoring Servers/Network device up-times, Virtualization using VMware/Hyper-V/Xen/KVM, Inventory Management, Common Application/OS level Security Risk management etc.

The call letter with detailed instructions are sent to the shortlisted candidates by email. Candidates are required to check their registered email regularly.

s/d.,
Head Administration and Finance
NCBS - TIFR