

Department of Metallurgical & Materials Engineering

List of candidates Eligible for written Aptitude Test and interview for admission to Ph.D. Programme 2019-20

Date: 03-06-2019

Sl. No.	Application No.	Name
1.	P19MT0001	Vishwanath Pratap Singh
2.	P19MT0022	Sanjay Kumar
3.	P19MT0029	Ranjith Kumar I
4.	P19MT0018	Harsha G. Patil
5.	P19MT0008	Vaibhav Gaur
6.	P19MT0019	Arvind Kumar
7.	P19MT0004	Manjunath
8.	P19MT0024	Chinmai Bhat
9.	P19MT0011	Prathviraj M P
10.	P19MT0030	Kamala Nathan D
11.	P19MT0023	N. Purushotham
12.	P19MT0020	Lakkimsetti Lakshmi Praveen
13.	P19MT0015	Vikas N P

Place of Reporting: Office, Dept of Metallurgical and Materials Engineering

Aptitude Test Date and Time: **June 17, 2019 & 11 a.m. – 12 noon**

Document verification: **June 17, 2019, 1.00 p.m.**

Interview Date and Time: **June 17, 2019, 2.00 p.m. onwards at faculty meeting room**

Instructions

- Written test shall contain MCQs and objective questions with negative marking for incorrect response.
- Use of calculator is permitted. However, the possession and use of cell phones/programmable electronic devices is prohibited.
- All candidates should bring a photo identity card and the call letter. The name used in the ID card must be the same as that used in the application form.
- Candidates are required to bring all the original supporting documents, such as mark/grade cards, degree certificates, GATE score card, caste certificate (for OBC/SC/ ST candidates), PwD certificate (for PwD candidates), and other relevant documents such as sponsorship certificate, experience certificate. In the absence of originals of the above-mentioned documents, your candidature may be cancelled.
- Reprints of research-papers/patents, if any, may be provided.
- Only GATE-qualified candidates are eligible for full time Ph.D. program with Institute scholarship.

- No TA/DA will be provided to candidates for appearing in the written aptitude test/interview.
- The candidates are requested to come prepared for staying overnight, if required, at their own expense.

Syllabus for written test

The electronic structure of atoms; Types of atomic and molecular bonds and bonding; Energy bands in metals, insulators and semiconductors; Basic crystallography; Defects and dislocations; Laws of thermodynamics; heat capacity; entropy; free energy; Types of Materials: Polymers, metals and alloys, semiconductors, ceramics, composites; Diffusion; Phase rule and phase diagrams; Properties: optical, magnetic, mechanical, electrical, thermal; Corrosion and material degradation; Characterization tools: XRD, SEM, TEM, DSC, TGA, basics of spectroscopy.

Sd/-
Head, Department of MME, NITK.