Department of Metallurgical & Materials Engineering

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

Date: 27-11-2019

Sl. No.	Application No.	Name
1.	PH2019MT0004	YEERLA MYTHRI PRIYANKA
2.	PH2019MT0005	BOKKA SRAVAN
3.	PH2019MT0006	NAVEEN BHARADISHETTAR
4.	PH2019MT0009	RAVI RAJ ANAND
5.	PH2019MT0014	MAHAMMADRAFEEQ MANVI
6.	PH2019MT0015	RAMANA SRINIVAS
7.	PH2019MT0016	SHISHIR R
8.	PH2019MT0019	HARISHA C P
9.	PH2019MT0024	GAJULA ARAVINDH
10.	PH2019MT0026	DUSHYANTHKUMAR G L

Place of Reporting: Office, Dept of Metallurgical and Materials Engineering
Aptitude Test Date and Time: **December 12, 2019 & 9 a.m. – 10 a.m.**
Interview Date and Time: **December 12, 2019, 11 a.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 Aptitude 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.