

Qualifying in GATE 2020 does not guarantee either an admission to a post-graduate programme or a scholarship/assistantship. Admitting institutes may conduct further tests or interviews for final selection.

In the GATE 2020, the qualifying marks for a general category candidate in each paper is  $\mu + \sigma$  or 25 marks (out of 100), whichever is greater, where  $\mu$  is the mean and  $\sigma$  is the standard deviation of marks of all the candidates who appeared in the paper. The qualifying marks for OBC(NCL) and SC/ST/PwD candidates are 90% and two-third of a general category candidate in the paper respectively.

The GATE 2020 score was calculated using the formula

$$GATE\ Score = S_q + \left(S_t - S_q\right) \frac{\left(M - M_q\right)}{\left(\overline{M}_t - M_q\right)}$$

where

**M** is marks (out of 100) obtained by the candidate in the paper

 $\boldsymbol{M_q}$  is the qualifying marks for general category candidate in the paper

 $\bar{M}_t$  is the mean of marks of top 0.1% or top 10 (whichever is greater) of the candidates who appeared in the paper (in case of multi-session papers including all sessions)

 $S_q = 350$ , is the score assigned to  $M_q$ 

 $S_t = 900$ , is the score assigned to  $\overline{M}_t$ 

In multi-session (Civil Engineering and Mechanical Engineering) papers, the normalized mark of  $j^{th}$  candidate in the  $i^{th}$  session  $\hat{M}_{ij}$  was computed using the formula

$$\widehat{M}_{ij} = \frac{\overline{M}_t^g - M_q^g}{\overline{M}_{ti} - M_{iq}} (M_{ij} - M_{iq}) + M_q^g$$

where

 $M_{ij}$  is the actual marks obtained by the  $j^{th}$  candidate in  $i^{th}$  session

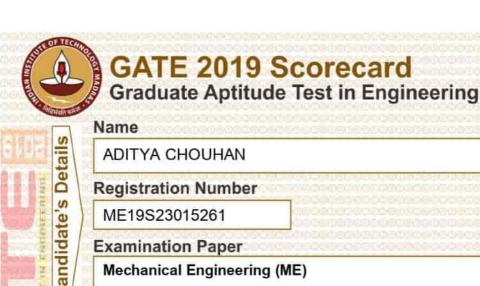
 $\bar{M}_t^g$  is the average marks of the top 0.1% of the candidates considering all sessions

 $M_q^g$  is the sum of mean and standard deviation marks of the candidates in the paper considering all sessions

 $\overline{\mathbf{M}}_{ti}$  is the average marks of the top 0.1% of the candidates in the  $i^{th}$  session

 $M_{iq}$  is the sum of the mean marks and standard deviation of the  $i^{th}$  session

Graduate Aptitude Test in Engineering (GATE) 2020 was organised by Indian Institute of Technology Delhi on behalf of the National Coordination Board (NCB) – GATE for the Department of Higher Education, Ministry of Human Resources Development (MHRD), Government of India.





Examination Paper

Mechanical Engineering (ME)

(Candidate's Signature)

Marks out of 100\*

31.55

Valid from March 17, 2019 to March 16, 2022

Qualifying Marks\*

22.7

All India Rank in this paper 28527

Performance

OBC (NCL) SC/ST/PwD

30.7

**Number of Candidates** Appeared in this paper

167376

**GATE Score** 

323

34.1

General

\* Normalized marks for multi-session papers

\*\* A candidate is considered qualified if the marks secured are greater than or equal to the qualifying marks mentioned for the category for which valid category certificate, if applicable, is produced along with this scorecard

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N. J. Vacs Prof. Nilesh J. Vasa

March 17, 2019

Organizing Chairman, GATE 2019 (on behalf of NCB - GATE, for MHRD)

The GATE 2019 score is calculated using the formula

GATE Score = 
$$S_q + (S_t - S_q) \frac{(M - M_q)}{(\overline{M}_t - M_q)}$$

where.

M is the marks obtained by the candidate in the paper, mentioned on this GATE 2019 scorecard M<sub>a</sub> is the qualifying marks for general category candidate in the paper

M, is the mean of marks of top 0.1% or top 10 (whichever is larger) of the candidates who appeared in the paper (in case of multi-session papers including all sessions)

 $S_a = 350$ , is the score assigned to  $M_a$ 

 $S_{i} = 900$ , is the score assigned to  $M_{i}$ 

In the GATE 2019 score formula,  $M_a$  is 25 marks (out of 100) or  $\mu + \sigma$ , whichever is greater. Here  $\mu$  is the mean and  $\sigma$  is the standard deviation of marks of all the candidates who appeared in the paper.

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## Codes for XE and XL Paper Sections (compulsory section and any other two sections)

XE: Engineering Sciences

A - Engineering Mathematics (compulsory)

B – Fluid Mechanics

C – Materials Science

D – Solid Mechanics

E - Thermodynamics

F - Polymer Science and Engineering

G - Food Technology

H - Atmospheric and Oceanic Sciences

XL: Life Sciences

P - Chemistry (compulsory)

Q - Biochemistry

R - Botany

S - Microbiology

T - Zoology

U - Food Technology

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