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FAQs for Joint Entrance Examination (Main) – 2024

FREQUENTLY ASKED QUESTIONS (FAQs) for JEE (Main) - 2024

S. No.	Parameter	JEE (Main) – 2024
1.	Number of Sessions	JEE (Main) – 2024 is being conducted in **Two Sessions (January/April).** A candidate has the option to apply **for one Session or both Sessions (Session 1 and Session 2 of 2024) together** and pay the exam fee accordingly. In other words, if a candidate wishes to apply only for one Session, he/she has to pay the Examination Fee only for that Session during the current application period and will have the opportunity to apply again for Session 2 (April 2024).
2.	Can a candidate apply for Session 2 (April 2024) during the period of 01 November to 30 November 2023	If a candidate wishes to apply for Session 2, the candidate can log in and pay the Examination Fee for Session 2 during that period.
3.	What is the website for the online Application Form for JEE (Main) – 2024?	https://jeemain.nta.ac.in/
4.	How to Register for JEE (Main) – 2024?	The candidates are required to register on the National Academic Depository (NAD) Digilocker. The candidates will be further able to register for JEE (Main) through the unique ID created after registration on the NAD portal. Those candidates who will not be able to register through the National Academic Depository (NAD), may be asked to report early (one hour prior to the entry time) at the examination Centre on the day of the examination. For Home Page:- 1. Login And Identification:- 2. I have a Digilocker Account. I wish to log in and identify through Digilocker. 3. I do not have a Digilocker Account. I wish to create my Digilocker Account and login and identify through Digilocker 4. I have an Academic Bank of Credits ID (ABC ID). I wish to log in and identify through ABC ID. 5. I do not have an Academic Bank of Credits ID (ABC ID). I wish to create my ABC ID and log in and identify through ABC ID. 6. I have an Indian Passport and wish to create my Login using my Passport. 7. I have a PAN Card and wish to create my Login using PAN.

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		8. I have an Aadhaar Enrolment Number and wish to create my Login using an Aadhaar Enrolment Number. 9. I have a Non-Indian Passport and wish to create my Login using a Non-Indian Passport.
2.	**Authentication of Mobile Number and e-mail Address**	• Candidates will enter both OTPs (received on Email and Mobile) on every login. • Unique mobile number and Email ID for every application. • The mobile number and e-mail addresses of parents will also be collected. Authentication at the Exam Centre 1. I wish to share my Aadhaar and authenticate myself at the Exam Centre through Aadhaar. 2. I have an Aadhaar, but I do not want to authenticate myself at the Exam Centre through an Aadhaar. I wish to authenticate through a valid Government ID with a Photograph (Passport/PAN Card/Ration Card/Driving License/Voter ID Card). 3. I do not have Aadhaar. I wish to authenticate myself at the Exam Centre through a valid Government ID with a Photograph (Passport/PAN Card/Ration Card/Driving License/Voter ID Card). Candidates will be informed as under : *Please note that for authentication through Non-Aadhaar options (2&3 above), you will need to authenticate yourself by getting Biometric recorded at the Exam Centre. You need to reach the Exam Centre 1 hour earlier than other Candidates to get your Biometric completed.
3.	**Choice of Cities**	The Choice of exam cities will be displayed to the candidates based on the **permanent and present address filled during registration**. Four choices of cities are given to the candidates.
4.	**Parents/Guardian Income details**	Family Annual Income (inclusive of Father's/ Guardian's Gross Annual Income, Mother's/ Guardian's Gross Annual Income, and Annual Income of Father's/ Mother's/Guardian from other sources, if any) are **mandatory fields**.
5.	**E-mailing the Confirmation page and Scorecard**	The copy of the Confirmation page and Score Card for both Sessions i.e. Session 1 and Session 2 will be sent to the **registered e-mail address of the candidate as well as of the parents**.
6.	**Online Application Form**	The form will be bilingual i.e., in English and Hindi There will be 3 sections in the form, as below: i. Step 1 - Registration Form ii. Step 2 - Application Form This includes filling in personal details, applying for and examination cities, qualification details, additional details (if any), and document upload). iii. Step 3 - Fee Payment.
8.	**AADHAAR Number**	AADHAAR authentication will be done for the candidates and it will be an optional field.

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9.	Use of Scribe	**The option is being given to the Candidate for Scribe. Either NTA may provide or the Candidate may bring his/her own Scribe.**
10.	Use of Digilocker	The candidate has to initiate the online Application Form of JEE (Main) – 2024 using Digilocker. However, the candidate has to first select the option whether applying "For India / Outside India"
11.	Medium of the examination.	**Medium of the Question Papers: Drawing from the National Education Policy (NEP), the JEE (Main) - 2024** is being conducted in English, Hindi, *Assamese, Bengali, Gujarati, Kannada, Malayalam, Marathi, Odia, Punjabi, Tamil, Telugu, and Urdu.* If any candidate chooses English as a medium, then the Question paper will be visible in Engish only. If any candidate chooses Hindi or other regional language as a medium of the Question paper, then the Question paper will be available in English and the selected language (Hindi or other regional language). For more information, please refer to Chapter 3 of the Information Bulletin.
12.	Recognition of UDID Card (Swaalamban Card)	UDID Card (Swaalamban Card) may also be considered as proof of disability for PwD candidates.
13.	Uploading of the Category Certificate.	No Category certificate is to be uploaded by the candidate in the online Application Form of JEE (Main) – 2024. However, the documents including the category certificate will be verified by the Counselling / Admitting Institutions.

Section-I General Queries		
S. No	Question	Reply
1.	When will the Online Application form for **JEE (Main) - 2024 Session 1** be available on the website?	The Online Application Form for JEE (Main) - Session 1 is available from **01.11.2023** to **30.11.2023 (up to 09.00 P.M)** on the website https://jeemain.nta.ac.in/ A candidate has the option to apply for one Session or both Sessions (Session 1 and Session 2 of 2024) together and pay the exam fee accordingly. In other words, if a candidate wishes to apply only for one Session, he/she has to pay the Examination Fee only for that Session during the current application period and will have the opportunity to apply again for Session 2 (April 2024).
2.	Is it true that JEE (Main)-2024 will be held in 02 sessions?	Yes. JEE (Main)-2024 is being held in 02 Sessions in 2024. **Session 1** will be held in **January 2024 (between 24 January and 01 February 2024)** and **Session 2** will be held in **April 2024 (between 01 April and 15 April 2024)**.
3.	When will the JEE (Main)-2024 Session 1	The tentative dates of examinations are as follows: **Session 1: Between 24 January and 01 February 2024** **Session 2: Between 01 April to 15 April 2024.**

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	Examination be conducted?	
4.	Whether the examination will be offline or online?	JEE (Main)-2024 Examination Session 1 will be held in "Computer Based Test" (CBT) Mode only, except for **the Drawing Test for B.Arch. will be held in "Pen & Paper" (offline) mode.**
5.	How to fill up the 'Online' Application Form for JEE (Main)-2024 Session 2? Are there any guidelines for the students before filling out the application form?	Yes, instructions to apply online for JEE (Main) - 2024 are available in the Information Bulletin under the heading ' *Important Information at Glance'*. For more details please go through the Information Bulletin **Appendix-VII** (Replica of Application Form)
6.	Whether a candidate have to fill up a separate Application Form for each session?	Candidates can fill up the Application Form & pay the requisite examination fee for each session separately at the time of opening the portal for that session. *Note: The candidate can apply for both sessions together.*
7.	What action is to be taken if the candidate has opted for English as a medium for examination and wants to appear in the Hindi medium?	The medium should be filled up while applying online. However, on the day of the Examination in CBT mode, the candidate can also choose/select his/her medium of question paper during the examination.
8.	Is Thumb Impression mandatory while filling JEE (Main) - 2024 Application?	There is no need to upload a thumb impression in the online Application Form of JEE (Main) - 2024.
9.	What should I do, if a 'continuous timeout' or 'file not found error' occurs while filling the online Application Form of JEE (Main)-2024?	Use an updated version of Mozilla Firefox/Internet Explorer and a good internet connection while filling out the Application Form. In case of continuous time out clear cookies and history of the browser and fill in off-peak hours.
10.	Are Candidates required to send/submit any document(s) including the Confirmation Page to NTA through Post/ Fax/ By Hand?	No. Candidates are not required to send/submit any document(s) including the Confirmation Page to NTA through Post/ Fax/WhatsApp/Email/by Hand.
11.	If any candidate did not apply for Session 1, can he/she apply for Session 2?	Yes, if a candidate has missed filling up the Application Form for the January session, he/she can fill up the Application Form for the April session at the time of opening of the portal for that session. The application window is now available at https://jeemain.nta.ac.in/
12.	Whether a candidate can appear in one session or does he/she have to appear in both Sessions?	It is the choice of the candidate. A candidate need not appear in both Sessions. However, if a candidate appears in more than one Session then his/her best of the JEE (Main) - 2024 NTA Scores will be considered for preparation of the Merit List/ Ranking.

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13.	Will the NTA reserve its discretion to fix the center in a city that is given in **Annexure I**?	As far as possible, the exam centres are allotted as per the choice of cities of the candidates made in their online Application form. Efforts are made to allot centre as per the Candidate's choice (s) and within city jurisdiction. However, due to administrative/logistic reasons, a different city may be allotted.
14.	Can a center be allotted by the NTA manually?	No.
15.	The dates of Examination of JEE (Main) - 2024 clashes with any other National / State level examination.	NTA will check the issue, and rectify it as per the availability of examination dates.
16.	How can I select the Date and Slot of Examination of JEE (Main) - 2024?	The date/shift/slot of examination is allotted by computer randomly which is required for the normalization process. Hence the choice of date and shift/slot cannot be selected by the candidate himself/herself.
17.	In case, the Candidate has uploaded a Blue Signature instead of a Black Signature in the application form of JEE (Main)-2024. Is it okay?	Yes, it is okay. Your Application Form will not be rejected merely for this mistake.
18.	Is there any helpline for JEE (Main) -2024 examination for the aspirants?	Yes. Details of Helpline Numbers and Email are as follows: • The Helpline No.- 011-40759000 • E-mail: jeemain@nta.ac.in
19.	Can the Candidate correct/ change his/her particulars including the City of Exam Centre in the Online Application?	As per the Instructions given to the candidates for filling up their Online Application Form, they are supposed to fill up their particulars carefully and NTA is not responsible for any mistake committed by the candidates in this regard. A one-time correction facility may be provided.
20.	Can anyone cancel the application submitted for JEE (Main)-2024 ?	Online Application forms once submitted successfully cannot be cancelled/ withdrawn.
21.	Can anyone submit the multiple Application form with the same mobile no. and Email ID?	No, **for each Application, the** *mobile number and e-mail address will be unique.*

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22.	a) Is it mandatory to fill in the Parents/Guardian's mobile and e-mail ID? b) Is it mandatory to fill in the Parent's / Guardian Income Details?	Yes, the Parent/guardian mobile and e-mail ID have OTP-based verification. The fields will be mandatory and will not be the same as those given by the candidate during registration. Yes, Family Annual Income (inclusive of Father's/ Guardian's Gross Annual Income, Mother's/ Guardian's Gross Annual Income, and Annual Income of Father's/ Mother's/Guardian from other sources, if any) is a mandatory field.
23.	How will the Candidate get the **confirmation Page** of the JEE (Main)-2024?	The Confirmation Page of the online Application Form for a session will be generated only after successful payment of the fee by the Candidate. A copy of the Confirmation Page of JEE (Main) - 2024 will be sent to the registered e-mail address of the Candidates.
24.	If one does not get an Admit Card, whom should be contact?	*The Candidates may please note that Admit Cards will not be sent by post.* The candidate has to download the Admit Card from the NTA website. For any assistance, candidates can call the NTA Helpline numbers: 011 40759000 or 011 69227700 or write to NTA at: jeemain@nta.ac.in
25.	Can a candidate change the examination center after the allotment of roll number?	The city of the allotted Examination Centre cannot be changed, in any case. *Note*: **The choice of exam cities displayed to the candidates will be based on the permanent and correspondence addresses filled during the Online Application Form of JEE (Main) – 2023.**
26.	What do the candidates need to bring at the exam center?	The candidate is required to bring the following at the examination centre: • Admit Card along with passport-size photograph affixed on it. • One passport-size photograph (to be affixed on the attendance sheet on the day of the Examination. • Candidates are advised not to bring any other items to the examination centers. There will be no arrangement for the safe keeping of any material at the centre. Neither NTA nor centre will be responsible for any loss, delay, etc. **Please refer to the Information Bulletin for details.**
27.	Will any candidate be able to leave early if he finishes the test before the allocated test time?	No, the candidate will not be allowed to leave the examination hall/room before the test concludes.
Section-II Specific Queries and Scheme of Examination		
28.	What is the responsibility of NTA for JEE (Main) - 2024?	The responsibility of NTA with regard to JEE (Main) - 2024 is limited to inviting online applications, conducting the entrance test, and handing over the results to the JOSSA and CSAB. The Joint Entrance Examination (JEE) Apex Board (JAB) is the final Authority for setting the policies, rules, and regulations for the conduct of JEE (Main) examination.
29.	How many questions papers are in JEE (Main)	The Joint Entrance Examination, JEE (Main) comprises two papers. **Paper 1** is conducted for admission to Undergraduate

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	- 2024?	Engineering Programs (**B.E/B.Tech**.) at NITs, IIITs, other Centrally Funded Technical Institutions (CFTIs), and Institutions/Universities funded/recognized by participating State Governments. JEE (Main) is also an eligibility test for JEE (Advanced), which is conducted for admission to IITs. **Paper 2** is conducted for admission to **B. Arch and B. Planning** courses in the country.
30.	What will be the advantages of Multiple Sessions in JEE (Main)-2024?	The JEE (Main) - 2024 is being conducted in **02 (two) Sessions** for admissions in the next academic session. The candidates will thus benefit in the following ways: (1) This will give opportunity to the candidates to improve their scores in the examination if they are not able to give their best in one attempt. (2) In the first attempt, the students will get a first-hand experience of taking an examination and will know their mistakes which they can improve while attempting for the next time. (3) This will reduce the chances of dropping a year and candidates would not have to waste a full year. (4) If anyone misses the examination due to reasons beyond control (such as the Board examination), then he/she will not have to wait for one full year. (5) A candidate need not appear in both Sessions. However, if a candidate appears in more than one Session then his/her best of the JEE (Main) - 2023 NTA Scores will be considered for preparation of the Merit List/ Ranking.
31.	**Whether NTA has changed the syllabus of JEE (Main)-2024 Session 2?**	The details of the syllabus are given on the website: **https://jeemain.nta.ac.in/** Moreover, to cater to the decision of different Boards across the country regarding the reduction in the syllabus, the NTA has decided to provide a choice in one Section of each Subject of Paper 1 and Part I of Paper 2A and 2B. However, the total number of questions to be attempted will remain the same (Physics -25, Chemistry – 25, and Mathematics – 25), wherever applicable. (Refer to Appendix VI for details).
32.	Is there any Negative Marking in the JEE (Main)-2024?	Section A will be of Multiple-Choice Questions (MCQs) and Section B will contain Questions whose answers are to be filled in as a numerical value. In Section B, candidates have to attempt any 05 (five) questions out of 10. **There will be negative marking for both Section A and Section B.**
33.	What is the duration of the examination for those candidates who wish to appear for both B. Arch as well as B.Planning?	The duration of the examination is 03:30 hrs. i.e. from 03:00 p.m. to 06:30 p.m. for those candidates who wish to appear for B.Arch and B.Planning.

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34.	What is the duration/timing/shift of JEE (Main) - 2024 Session 1?	**Duration, Shift, and timing of examination are available at Important dates (IMPORTANT INFORMATION AT A GLANCE)** in the Information Bulletin of JEE (Main) - 2024. **Please refer to the Information Bulletin for details.**
35.	How will one know the result of the JEE (Main)-2024?	The result of JEE (Main)-2024 will be uploaded on the NTA website www.nta.ac.in / www.jeemain.nta.ac.in as per schedule. *A scanned copy of the Final Scorecard of JEE (Main) – 2024 will be sent to the registered e-mail address of the Candidates.*
Section – III - Eligibility Criteria		
36.	What is the minimum eligibility criteria/qualification for appearing in JEE (Main)-2024?	Only those candidates who have passed the Class 12/equivalent examination in **2022, 2023, or those who are appearing in the Class 12/equivalent examination in 2024**, are eligible to appear in JEE (Main) - 2024. For more details refer to the Information Bulletin.
37.	What are the age limit/relaxation criteria for the candidates appearing in JEE (Main) - 2024?	For appearing in the JEE (Main) - 2024, there is no age limit for the candidates. The candidates who have passed the class 12/equivalent examination in 2022, 2023, or appearing in 2024 irrespective of their age can appear in JEE (Main) - 2024 examination. However, the candidates may be required to fulfill the age criteria of the Institute(s) in which they are desirous of taking admission.
38.	What will be the pattern of examinations?	The Question Paper has been divided into two sections. There will be 90 Questions in Paper 1 and candidates will be required to attempt 75 questions only. There will be negative markings for 15 optional questions. Paper-wise details are as follows: ii. Paper 1 (B.E./B.Tech.): Each Subject will have two sections. Section A will be of Multiple-Choice Questions (MCQs) and Section B will contain Questions whose answers are to be filled in as a numerical value. In Section B, candidates have to attempt any five questions out of 10. There will be negative markings for both Section A and Section B. ii. Paper 2A (B. Arch.): Part -1 will have two sections. Section A will be of Multiple-Choice Questions (MCQs) and Section B will contain Questions whose answers are to be filled in as a numerical value. In Section B, candidates have to attempt any five questions out of 10. There will be negative markings for both Section A and Section B. Part II (Aptitude Test) will have 50 Multiple-Choice Questions (MCQs). Part III (Drawing Test) will have two questions to be attempted on the Drawing Sheet. iii. Paper 2B (B. Planning) - Part -1 will have two sections.

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		Section A will be of Multiple-Choice Questions (MCQs) and Section B will contain Questions whose answers are to be filled in as a numerical value. In Section B, candidates have to attempt any five questions out of 10. There will be negative markings for both Section A and Section B. Part II (Aptitude Test) will have 50 Multiple-Choice Questions (MCQs). Part III (Planning-based question) will have 25 Multiple-Choice Questions (MCQs).
39.	How do I accept the choice of attempting **Five Questions in Section B** of Paper 2A &2B?	You can select any five questions, you wish to answer. You are also allowed to change the answers to the selected questions before final submission. Youcan select questions different from the ones selected by you earlier and answer them before the final submission of the Question Paper. **At any point in time, you will be permitted to answer only five questions in Section B.**
40.	Which score will be considered in the compilation of Results and Preparation of the Merit List / Ranking?	A candidate has a choice to appear in one or both sessions. He/ she will be awarded an NTA score in each session based on his performance. The candidate's best NTA Scores of all the sessions in which he/ she has appeared will be considered for preparation of the Merit List/ Ranking.
41.	Whether the JEE (Main)-2024 will be held in a different medium?	Yes, drawing from the National Education Policy (NEP), the JEE (Main) - 2024 will be conducted in *Assamese, Bengali, Gujarati, Kannada, Malayalam,Marathi, Odia, Punjabi, Tamil, Telugu, Urdu inaddition to Hindi and English.*
42.	What is the State code of eligibility?	State code of eligibility means the code of the State from where the candidate has passed the Class 12 (or equivalent) qualifying examination by virtue of which the candidate becomes eligible to appear in JEE (Main) 2024. If a candidate has passed the Class 12 (or equivalent) qualifying examination from one State but appeared for improvement from another State, the candidate's State code of eligibility will be from where the candidate first passed the Class XII. Candidates who passed/appeared in class 12th from NIOS should select the State of Eligibility according to theState in which the study centre is located. For Indian nationals passing the Class XII (or equivalent) examination from Nepal/Bhutan, the State code of eligibility will be determined based on a permanent address in India as given in the passportof the candidate. The State code of eligibility of OCI passing theClass 12 (or equivalent) examination in India is at par with Indian nationals. However, OCI passingthe Class XII (or equivalent) examination from an institution abroad are eligible for Other State quota seats or All India quota seats (but NOT for Home State quota seats) in

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		all NITs, IIITs, and Other-CFTIs
		For more details, please refer to the Information Bulletin of JEE (Main)-2024 which is available at the NTA **website: jeemain.nta.ac.in**
43.	Does NTA have any exemption for the Divyangjan candidates?	Yes, Divyangjan candidates are permitted to use a Scribe or allowed Compensatory time or both as given below : a. *The facility of a Scribe*, in case he/she has a physical limitation and a scribe is essential to write the examination on his/her behalf, being so certified in the prescribed format (Annexure IV to VIII) by a CMO/Civil Surgeon/ Medical Superintendent of a Govt. Health Care Institution. b. *Compensatory time* of one hour for examination of three hours duration, whether such candidate uses the facility of Scribe or not. For more details, please refer to the Information Bulletin of JEE (Main) - 2024 which is available at the NTA website: jeemain.nta.ac.in
44.	Will B. Tech. / B. Arch Scores of JEE (Main) - 2024 will be used for admission to Dr. APJ Abdul Kalam Technical University (AKTU), Lucknow, and Madan Mohan Malviya University, Gorakhpur (MMMUT).	Yes, B. Tech/ B. Arch Scores of JEE (Main) - 2023 may also be used for admission to Dr. APJ Abdul Kalam Technical University (AKTU), Lucknow, MMMUT, Gorakhpur, and other Institutions / Universities. From the **Academic year 2024-25, the Government of Goa has approved that admissions to Engineering Degree Courses in the State Engineering Colleges in Goa State will also be done based on JEE (Main).**
45.	How many times a candidate can appear in JEE (Advanced) - 2024?	Details may be obtained from the Information Brochure of the JEE (Advanced) 2024. Please see link: **https://jeeadv.ac.in/**
46.	What is the validity of the Category Certificate (SC / ST / OBC / EWS-Gen.) and PwD certificate?	In this regard, please follow the rules of relevant admitting institutions.
47.	In the case of foreign national candidates (OCI/PIO), what will be the pin code in the address section?	Such candidates are required to put 000000 in the field of Pin Code.

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48.	Will the selection for Admission of students under Direct Admission of Students ABROAD (DASA-2024) be made through JEE (Main) 2024?	Yes. The Ministry of Education, Govt. of India vide its O.M. F.No.35- 9/2016-TS. III MHRD dated 21st December 2018 has approved that the selection for Admission of students under Direct Admission of Students ABROAD (DASA) will be through JEE (Main). This may be applicable from academic year 2022-23 onwards. The NTA has been conducting JEE (Main) on Computer Based Test (CBT) in India and Abroad for Admission to undergraduate courses in IITs, NITs, IIITs, and CFTIs. The Admission for DASA is done based on the Rank obtained in JEE(Main) from the Academic Session 2022-23.

Section - IV Fee/Payment Queries

49.	Whether the application fee excludes the Common Service charge?					

Fee payable for JEE (Main) – 2024 (through Credit Card /Debit Card (except Master/Visa Card) / Net-Banking/UPI)		Type of Candidate		Centres in India (Fee in ₹)	Centres Outside India (Fee in ₹)
Paper 1: B.E./B. Tech or **Paper 2A: B. Arch** or **Paper 2B: B.Planning**	General		Male	1000	5000
			Female	800	4000
	Gen-EWS/ OBC (NCL)		Male	900	4500
			Female	800	4000
	SC/ST/PwD		Male	500	2500
			Female	500	2500
	Third Gender			500	3000
Paper 1: B.E./B. Tech & Paper 2A: B. Arch or **Paper 1: B.E./B. Tech & Paper 2B: B. Planning** or **Paper 1: B.E./B.Tech, Paper 2A: B. Arch & Paper 2B: B.Planning** or **Paper 2A: B. Arch & Paper 2B: B.Planning**	General/Gen-EWS/OBC (NCL)		Male	2000	10000
			Female	1600	8000
	SC/ST/PwD		Male	1000	5000
			Female	1000	5000
	Third Gender			1000	5000
Processing charges and Goods & Service Taxes (GST) are to be paid by the candidate, as applicable.					

50.	How can one remit a fee for JEE (Main) - 2024?	The examination fee for JEE (Main) - 2024 can be remitted in the following manner: • Through any Debit / Credit / UPI Card using SBI / Canara / HDFC / ICICI online gateway payment facility/ Net Banking.

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51.	If any candidate faces any problem in the remittance of fee due to a failed transaction, what can he/she do?	If the payment status of an online transaction (by credit/debit card) is not communicated by the payment gateway in real time then fee payment is not completed and the candidate will not be able to download the Acknowledgement page. In this case, the candidate is required to pay the fee again through online mode and download the acknowledgment page. The amount due to the failed transaction of credit/debit card will be refunded after the declaration of the final result of JEE (Main) – 2024.

Frequently Asked Questions Related to the Normalization Procedure and Percentiles for the JEE (Main) – 2024

S. No.	Question	Reply
	Need and nature of normalization	
1.	What is meant by 'normalization of marks'?	The process of transforming the raw marks scored by candidates into a common scale for ease of comparing them with those of other candidates is broadly termed as normalization of marks.
2.	Why is normalization necessary?	When an examination is held in two or more shifts, it is difficult to directly compare the raw marks of candidates appearing in the different shifts. A good normalization procedure will allow for such a direct comparison by transforming the marks onto a common scale.
3.	What is a shift or what constitutes a shift?	A shift in this context refers to the collection of all candidates who have been administered the same question paper.
4.	Why is normalization not needed if the examination is held in a single shift with the same paper?	All candidates in the same shift are administered the same question paper. In this sense, they are being tested on a level playing field. It is a common practice that, in such a case, a candidate who scores, say, 75 marks will always be ranked higher than any other candidates with lower marks, say 70.
5.	Even if the examination is held in two or more shifts, why can't the actual marks scored by each candidate be used to rank the candidates?	By the very nature of multi-shift examinations, candidates in different shifts answer different questions/question papers. Then it is not clear whether the candidate with 75 marks in one shift should always be ranked higher than a candidate with 70 marks in another shift.
6.	In the above example, why should a candidate with 75 marks not always be considered to be better than another with 70 marks? After all, 75 is greater than 70.	In spite of best efforts by the question setters, different question papers may have different levels of difficulty. It may be very easy to score 75 marks in one of the two papers while it may be very difficult to score even 70 in another.
7.	Still, shouldn't a higher score	No.

S. No.	Question	Reply
	necessarily mean a better performance?	An analogy can be drawn when comparing physical quantities like length or area. Questions such as "(a) Which is larger – 2 inches or 4 centimetres?" or "(b) Which is lighter – 4 kilograms or 8 pounds?" cannot be answered by just looking at the value of the number. The absolute numbers 2 and 4 have no intrinsic meaning unless accompanied by the units of measurement.
8.	How are the quantities to be compared, in such cases?	This can be done only by converting the two quantities that are being compared into a common scale / same units. Once the scale or the unit of measurement is the same, the two quantities can be directly compared by looking at the corresponding numerical values.
9.	Even though the JEE (Main) - 2024 examination is held in different shifts, the different question papers are still being graded in the same range – like 0 to 100. Does this not mean that the grading is on the same scale and is the above analogy then valid?	No, the grading need not be on the same scale even though all question papers have the same maximum marks. While the range of marks may be the same, the difficulty levels may be different. This means that the marks in different shifts are not on the same scale. Yes, indeed the analogy is valid.
10.	How are the marks in different shifts brought to the same scale?	This is done by converting the raw marks scored by the candidates into normalized marks by adopting a normalization procedure.
Methods of normalization		
11.	There are formulae for converting inches into centimetres or kilograms into pounds. Is there such a formula for converting marks from one scale to another?	Length, mass, etc. are physical quantities. But the examination score is not. There is no direct formula for conversion.
12.	Can the above be elaborated?	Examination scores try to evaluate the merit of a candidate by assigning marks. This is not a physical quantity. To elaborate, the same candidate attempting the same question paper may score differently at different times.

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		However, measurements of mass or length, do not depend on the person doing the experiment or on the time when it is done.
		Of course, it is understood that there is an association between the merit and the marks – but this relationship is not exact.
13.	If there is no formula, how will the normalization work?	Statistical procedures can be applied to normalize the marks.
14.	Are there any assumptions underlying the statistical procedures?	Broadly speaking, statistics is a science that deals with a large number of observations. As such, the methods mentioned here work under the assumption that i. *The total number of candidates is large,* ii. *each shift has roughly a similar number of candidates,* iii. *the candidates are assigned to the shifts randomly.*
Percentiles		
15.	What are percentiles?	Percentiles indicate the relative position of a candidate with respect to the other candidates in the same shift of examination.
16.	Is there a formula for calculating the percentiles?	Yes. Details are given in the Information Bulletin of JEE (Main) – 2024.
17.	Are percentiles calculated by pooling the scores of all candidates in all shifts?	No. Percentiles are calculated separately for each shift.
18.	What is the formula/procedure for calculating the percentiles of candidates in each shift?	Consider a candidate with a *raw score = T*. The percentile score for this candidate is calculated using the following steps: i. *Record the number of candidates who have actually appeared in the shift. Denote this number by N.* ii. *Let m denote the number of candidates in that shift whose raw scores are less than or equal to T.*

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		iii. *The percentile score for this candidate is then calculated:* $$P = 100 \times \frac{m}{N}.$$ iv. *The percentile P above can be rounded off to the requisite number of decimal places*
19.	What are the possible values of the percentile P?	The highest possible value of P is 100. The lowest possible value is 0. Hence P will be a number between 0 and 100.
20.	How is the percentile score to be interpreted?	The percentile score P indicates the relative position of the candidate in his/her shift. Hence P = 100 for candidate A indicates that 100% of the candidates from that shift scored marks less than or equal to the marks scored by A and 0% of the candidates scored marks higher than those of A. i.e. A is a topper in that shift. Similarly, P = 0 for candidate B indicates that 0% of the candidates from that shift scored marks less than or equal to the marks scored by B and 100% of the candidates scored marks higher than those of B i.e. B scored the least among all candidates in that shift. Any intermediate value of P will have a similar interpretation. For example, P = 98.25 for candidate C indicates that 98.25% of the candidates from that shift scored marks less than or equal to the marks scored by C and the remaining 1.75% of the candidates scored marks higher than those of C.
21.	What does the percentile score of 100 imply?	A candidate will have a percentile score of P = 100 if and only if the candidate is a topper in that shift.
22.	If candidate A has scored more marks than another candidate B from the same shift, will the percentiles also be similarly ordered?	If candidates A and B appear in the same shift and the marks of A are more than those of B, then the percentile score for A will be more than the percentile score for B. Hence the rank of A will continue to be higher than that of B.
23.	If candidates A and B score exactly the same marks in the same shift will their percentiles	Yes. Equal marks in the same shift will translate to equal percentiles and hence equal rank.

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	be the same?	
24.	Illustrative example: Four candidates A, B, C, and D appeared in the same shift. The difference in marks between A and B is exactly the same as the difference in marks between C and D.	Will the percentiles also be equally spaced? **No. The percentiles may not be equally spaced.** Why not? **Percentiles indicate the relative position of the candidate in the shift. Experience suggests that there are fewer candidates scoring high marks than those scoring marks in the middle range. This will be reflected in the percentile scores.** Can this be elaborated with reference to the example? **Suppose the raw marks of A and B are respectively 91 and 93 (closer to the top) and those of C and D are 64 and 66 (closer to the middle).** **There are likely to be fewer candidates with scores near the top i.e. between A and B and many more with scores between C and D, even though in each case the difference in the raw marks is only 2.** **Hence the percentile scores of A and B are likely to be closer to each other while the percentile scores of C and D are not so much.** Isn't the same phenomenon observed for (usual) ranks which are based on raw scores? **Indeed, it is true that the same phenomenon is observed for usual ranks based on raw scores – and for the same reason. Namely, there would be fewer candidates at the top between candidates A and B than between candidates C and D even though the difference between the respective raw scores is 2 marks each.** **Hence the ranks of candidates A and B are closer to each other than those of candidates C and D.** Does the above analysis indicate that ranks based

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		on raw marks are equivalent to ranks based on percentile scores for single-shift examinations? **Indeed, in a single-shift examination, the use of raw marks and percentile scores will result in exactly the same rank for each candidate.** **Percentile scores are required only when candidates across different shifts are to be compared amongst each other.**
25.	If the percentiles are calculated separately for each shift, then how are the scores compared?	Once the percentile scores are assigned to each candidate in every shift, these indicate the relative position of the candidate in their respective shift. This is a common, uniform scale of marks and hence the percentile scores can be compared with each other.
26.	Does this mean that the candidate with a higher percentile score will be ranked higher than the candidate with a lower percentile score, irrespective of the shift in which they appeared?	Yes. Indeed this is so. The percentile scores are on a common uniform scale. Hence irrespective of the shift in which the two candidates appeared, the one with a higher percentile score will be ranked higher.
27.	Two candidates have scored exactly the same marks in the examination. Will the percentile scores match?	As mentioned above if two candidates from the same shift have the same marks, then their percentile scores will be the same. **However, if the candidates from different shifts score the same marks, the percentiles may be different. The reason as explained earlier is that the percentile scores or the relative position of the candidates are calculated with reference to each shift separately. It is possible that the same marks in different shifts would correspond to different relative positions.**
28.	What is the method of determining merit?	Conversion of the raw score in Mathematics, Physics, and Chemistry, and the conversion of the total into NTA scores. Overall merit shall be prepared by merging NTA scores of all shifts of all days.
		Tie between candidates obtaining equal Total NTA scores in **Paper 1: B.E./B.Tech** will be resolved in the following manner in descending

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		order:

i. NTA score in Mathematics, followed by

ii. NTA score in Physics, followed by

iii. NTA score in Chemistry, followed by

iv. Candidate with less proportion of a number of attempted incorrect answers and correct answers in all the subjects in the Test, followed by

v. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Mathematics in the Test, followed by

vi. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Physics in the Test, followed by

vii. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Chemistry in the Test followed by

viii. Older in Age followed by

ix. Application Number in ascending order