

## 2.3 Scheme of Examination

Subject combinations for each paper, type of questions in each paper and mode of examination are given in the table below:

PAPER	SUBJECTS	TYPE OF QUESTIONS	MODE OF EXAMINATION
<b>Paper 1:</b> B.E. / B. Tech.	Mathematics, Physics and Chemistry	Objective Type - Multiple Choice Questions (MCQs) and Questions for which the answer is a numerical value, with equal weightage to Mathematics, Physics and Chemistry	"Computer Based Test (CBT)" mode only
<b>Paper 2A:</b> B. Arch	Part-I: Mathematics	Objective Type - Multiple Choice Questions (MCQs) and Questions for which the answer is a numerical value	"Computer Based Test (CBT)" mode only
	Part-II: Aptitude Test	Objective Type - Multiple Choice Questions (MCQs)	
	Part-III: Drawing Test	Questions to test drawing aptitude	"Pen and Paper Based" (offline) mode to be attempted on a Drawing sheet of A4 size.
<b>Paper 2B:</b> B. Planning	Part-I: Mathematics	Objective Type - Multiple Choice Questions (MCQs) and Questions for which the answer is a numerical value	"Computer Based Test (CBT)" mode only
	Part-II: Aptitude Test	Objective Type - Multiple Choice Questions (MCQs)	
	Part-III: Planning-Based Questions	Objective Type - Multiple Choice Questions (MCQs)	

## 2.4 Pattern of Examination

Paper 1: B.E./ B. Tech. in Computer Based Test (CBT) mode:					
1	Subject-wise distribution of Questions, Total Number of Questions, and Marks	Subject	Section A	Section B	Marks
		Mathematics	20	05	100
		Physics	20	05	100
		Chemistry	20	05	100
		Total	75		300
	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. There will be negative marking for incorrect answer in Section A and Section B. For each question in Section B, a candidate has to enter the correct integer value of the answer using the mouse and the on- screen virtual numeric keypad in the place designated to enter the answer. For Section B, the answer should be rounded off to the nearest integer.				

Excellence in Assessment				
2.	Marking Scheme for MCQs	Correct Answer or the Most Appropriate Answer	Four marks (+4)	
		Incorrect Answer	Minus one mark (-1)	
		Unanswered / Marked for Review	No mark (0)	
3.	Marking Scheme for questions for which the answer is a Numerical value	Correct Answer	Four marks (+4)	
		Incorrect Answer	Minus one mark (-1)	
		Unanswered / Marked for Review	No mark (0)	
4.	Method of determining merit	Conversion of the raw score in Mathematics, Physics and Chemistry and total into NTA scores.  Overall merit shall be prepared by merging NTA scores of all shifts of all days.		
5.	Method of resolving ties	Tie between candidates obtaining same Total NTA scores will be resolved in the following order:  1. NTA score in Mathematics, followed by; 2. NTA score in Physics, followed by; 3. NTA score in Chemistry, followed by; 4. Candidate with less proportion of a number of attempted incorrect answers and correct answers in all the subjects in the Test, followed by; 5. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Mathematics in the Test, followed by; 6. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Physics in the Test, followed by; 7. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Chemistry in the Test followed by; 8. If there is a tie even after this, candidates will be assigned the same rank.		
<b>Paper 2A (B. Arch):</b> Mathematics (Part-I) and Aptitude Test (Part-II) in Computer Based Test (CBT) mode and Drawing Test (Part-III) in Pen and Paper Based (offline) mode, to be attempted on a drawing sheet of A4 size.				
1.	Subject-wise distribution of Questions, Total Number of Questions, and Marks	<b>Subject</b>	<b>Number of Questions</b>	<b>Marks</b>
		Part I: Mathematics	20 (Section A) and 05 (Section B)	100
		Part II: Aptitude test	50	200
		Part III: Drawing Test	02	100
		Total	<b>77</b>	<b>400</b>
	20 questions will be MCQs and 05 (five) questions will have answers to be filled as a numerical value. There will be negative marking for both Section A and Section B ( <b>except Drawing Test</b> ). For each question in Section B, a candidate has to enter the correct integer value of the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer. The answer should be rounded off to the nearest integer.			
2.	Marking Scheme for MCQs	Correct Answer or the most appropriate Answer	Four marks (+4)	
		Incorrect Answer/Multiple Answer	Minus one mark (-1)	
		Unanswered /Marked for Review	No mark (0)	
3.	(a) Marking Scheme for	Correct Answer or the most	Four marks (+4)	

	questions for which the answer is a Numerical value	appropriate Answer		
		Incorrect Answer	Minus one mark (-1)	
		Unanswered / Marked for Review	No mark (0)	
	(b)Marking Scheme for Drawing Test (Part III)	Two questions are to be evaluated out of 100 marks.		
4.	Method of determining merit	Conversion of the raw score in Mathematics, Aptitude Test, Drawing Test, and total into NTA Scores.  Overall merit shall be prepared by merging the NTA Scores of both shifts of all days.		
5.	Method of resolving ties	The tie between candidates obtaining the same Total NTA scores will be resolved in the following manner:  1. NTA score in Mathematics, followed by; 2. NTA score in Aptitude Test, followed by; 3. NTA score in Drawing Test, followed by; 4. Candidate with less proportion of a number of attempted incorrect answers and correct answers in all the subjects in the Test, followed by; 5. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Mathematics (Part-I) in the Test, followed by; 6. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Aptitude Test (Part-II) in the Test followed by; 7. If there is a tie even after this, candidates will be assigned the same rank.		
<b>Paper 2B (B. Planning) Part-I:</b> Mathematics, Part-II: Aptitude Test, and Part-III: Planning- Based Questions in Computer-Based Test (CBT) mode.				
1.	Subject-wise distribution of Questions, Total	<b>Subject</b>	<b>Number of Questions</b>	<b>Marks</b>
		Part-I: Mathematics	20 (Section A) and 05 (Section B)	100
	Number of Questions, and Marks	Part-II: Aptitude Test	50	200
		Part-III: Planning	25	100
		Total	<b>100</b>	<b>400</b>
		<i>20 questions will be MCQs and 05 (five) questions will have answers to be filled as a numerical value. There will be negative marking for both Section A and Section B (except Drawing Test). For each question in Section B, enter the correct integer value of the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer. The answer should be rounded off to the nearest integer.</i>		
2.	Marking Scheme for MCQs	Correct Answer or the most appropriate Answer	Four marks (+4)	
		Incorrect Answer/Multiple Answer	Minus one mark (-1)	
		Unanswered /Marked for Review	No mark (0)	
3.	Marking Scheme for questions for which the answer is a Numerical value	Correct Answer or the most appropriate Answer	Four marks (+4)	
		Incorrect Answer	Minus one mark (-1)	
		Unanswered / Marked for Review	No mark (0)	

4.	Method of determining merit	<p>Conversion of the raw score in Mathematics, Aptitude Test, Planning Based Test, and total into NTA Scores.</p> <p>Overall merit shall be prepared by merging NTA Scores of all shifts of all days.</p>
5.	Method of resolving ties	<p>Tie between candidates obtaining equal Total NTA scores in B. Planning will be resolved in the following manner:</p> <ol style="list-style-type: none"> <li>1. NTA score in Mathematics, followed by;</li> <li>2. NTA score in Aptitude Test, followed by;</li> <li>3. NTA score in Planning Based Questions, followed by;</li> <li>4. Candidate with less proportion of a number of attempted incorrect answers and correct answers in all the subjects in the Test, followed by;</li> <li>5. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Mathematics (Part- I) in the Test, followed by;</li> <li>6. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Aptitude Test (Part- II) in the Test, followed by;</li> <li>7. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Planning Based Questions (Part-III) in the Test followed by;</li> <li>8. If there is a tie even after this, candidates will be assigned the same rank.</li> </ol>

#### 2.4.1 Multiple Choice Questions

To answer a question, the candidates need to choose one option corresponding to the correct answer or the most appropriate answer. However, if any anomaly or discrepancy is found after the process of challenges of the key verification, it shall be addressed in the following manner:

1. Correct answer or the most appropriate answer: Four marks (+4)
2. Any incorrect option marked will be given minus one mark (-1)
3. Unanswered/Marked for Review will be given no mark (0)
4. If more than one option is found to be correct then Four marks (+4) will be awarded to only those who have marked any of the correct options
5. If all options are found to be correct then Four marks (+4) will be awarded to all those who have attempted the question

Although sufficient care will be taken for the correctness of questions, in the event that a question(s) needs to be dropped, full marks for that question(s) will be awarded to ALL candidates.

## 2.4.2 Numerical Value Questions

There will be negative marking for Section B. However, if any anomaly or discrepancy is found after the process of challenges of the key verification, it shall be addressed in the following manner:

1. Correct Answer: Four marks (+4)
2. Incorrect Answer: Minus one mark (-1)
3. Unanswered/Marked for Review: No mark (0).
4. If a question is found to be incorrect or the Question is dropped then Four marks (+4) will be awarded to all Candidates. The reason could be due to human error or technical error.
5. Candidates are advised to do the calculations with the constants given (if any) in the questions.  
**The answer should be rounded off to the nearest integer.**

## 2.5 Duration of Test

The total time duration for Paper 1 (B.E. / B. Tech.) is given in the table below:

Paper	Subjects	Total Time Duration	
		For Non-PwD/PwBD Candidates	*For PwD /PwBD Candidates (who are eligible for scribe)
<b>Paper 1</b> (B.E. / B. Tech.)	Physics, Chemistry, and Mathematics	03 hours	04 hours

Total time duration for Paper 2A (B. Arch), Paper 2B (B. Planning) and Paper 2A (B. Arch) & Paper 2B (B. Planning) both are given in the table below:

Paper	Subjects	Total Time Duration	
		For Non-PwD/PwBD Candidates	*For PwD /PwBD Candidates (who are eligible for scribe)
<b>Paper 2A</b> (B. Arch)	Mathematics, Aptitude Test, and Drawing Test	03 hours	04 hours
<b>Paper 2B</b> (B. Planning)	Mathematics, Aptitude Test, and Planning Based Questions	03 hours	04 hours
<b>Paper 2A</b> (B. Arch) and <b>Paper 2B</b> (B. Planning)	Mathematics, Aptitude Test, Drawing Test, and Planning Based Questions	03 hours 30 minutes	04 hours 10 minutes

**Note - 2.3:** \*Compensatory time for PwD/PwBD Candidates of 20 minutes for a one-hour examination will be given to those who are eligible for Scribe.

## 2.6 Syllabus of Examination

The detailed syllabus for JEE (Main) is available on the website: <https://jeemain.nta.nic.in/>

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