

NDA 1 2025

LIVE

MATHS

STUDY PLAN & ANALYSIS



NAVJYOTI SIR

Crack
EXAMS



23 Sep 2024 Live Classes Schedule

8:00AM --- 23 SEP 2024 DAILY CURRENT AFFAIRS --- RUBY MA'AM

9:00AM --- 23 SEP 2024 DAILY DEFENCE UPDATES --- DIVYANSHU SIR

NDA 1 2025 LIVE CLASSES

10:30AM --- ENGLISH - STUDY PLAN & ANALYSIS --- ANURADHA MA'AM ✓

11:30AM --- GK - STUDY PLAN & ANALYSIS --- RUBY MA'AM

2:30PM --- GS - STUDY PLAN & ANALYSIS --- SHIVANGI MA'AM

4:00PM --- MATHS - STUDY PLAN & ANALYSIS --- NAVJYOTI SIR ✓

CDS 1 2025 LIVE CLASSES

11:30AM --- GK - STUDY PLAN & ANALYSIS --- DIVYANSHU SIR ✓

1:00PM --- GS - STUDY PLAN & ANALYSIS --- SHIVANGI MA'AM ✓

2:30PM --- MATHS - STUDY PLAN & ANALYSIS --- NAVJYOTI SIR ✓

5:30PM --- ENGLISH - STUDY PLAN & ANALYSIS --- ANURADHA MA'AM ✓

AFCAT 1 2025 LIVE CLASSES

10:00AM --- REASONING - STUDY PLAN & ANALYSIS --- RUBY MA'AM ✓

12:00PM --- ENGLISH - STUDY PLAN & ANALYSIS --- ANURADHA MA'AM ✓

1:00PM --- MATHS - STUDY PLAN & ANALYSIS --- NAVJYOTI SIR ✓

4:00PM --- STATIC GK - STUDY PLAN & ANALYSIS --- DIVYANSHU SIR ✓



All About NDA 1 2025 Exam

Union Public Service Commission (UPSC) will publish NDA 1 2025 exam official notification in December 2024 for admission of unmarried males/ females to the Army, Navy and Air Force wings of the **NDA for the 155th Course** and for the **117th Indian Naval Academy Course (INAC)** commencing from January 2026.



NDA 1 2025 Important Dates to Remember

No.	Important Events	Dates
1.	Notification Release Date	11 December 2024
2.	Starting date for Submission of Application	11 December 2024
3.	Last date for Submission of Application	31 December 2024
4.	Release of Admit Card	2 Weeks Before Exam
5.	Date of the Examination	13 April 2025 (SUNDAY)
6.	Declaration of Results	May/June 2025

NDA 1 2025 Tentative Vacancies

Academy		Male	Female
National Defence Academy (NDA)	Army	198	10
	Navy	39	3
	Air Force	114	6
Naval Academy (NA)	10+2 Cadet Entry	30	-
TOTAL		381	19



NDA 1 2025 Selection Procedure



NDA 1 2025 Exam Pattern

Code	Subject	No. of Questions	Total Marks	Correct Answer	Wrong Answer
01	Mathematics (Paper 1) ✓ }	120 ✓	300 ✓ }	2.5 ✓	0.83 ✓
02	General Ability Test (Paper 2) ✓	English ✓	50 ✓	4	1.33
		GK ✓	100 ✓		
	TOTAL	270	900		

- Duration of Each paper is 2 ½ hours.
- No marks for unattempted questions.
- All are objective type questions only.

NDA 1 2025 Marking Scheme

SECTION	NO. OF QUESTIONS	TOTAL MARKS	CORRECT ANSWER	WRONG ANSWER
Mathematics	120	300	2.5 Marks	0.83 Marks
GAT English	50	200	4 Marks	1.33 Marks
GAT GK	100	400	4 Marks	1.33 Marks
TOTAL	270	900		

NDA Previous Years' Written Cut-Off Marks

Exam Year	Official Cut-Off Marks secured by last recommended candidate – written stage (out of 900) ✓	Percentage as per Marks	Official Cut-Off Percentage in each paper
NDA 2 2024	TO BE UPDATED	TO BE UPDATED	TO BE UPDATED
NDA 1 2024	TO BE UPDATED	TO BE UPDATED	TO BE UPDATED
NDA 2 2023	292 ✓	32%	20% ✓
NDA 1 2023	301 ✓	33%	25% ✓
NDA 2 2022	316 ✓	35%	25% ✓
NDA 1 2022	360 ✓	40%	25% ✓
NDA 2 2021	355 ✓	39%	25% ✓
NDA 1 2021	343 ✓	38%	25% ✓
NDA 1 & 2 2020	355 ✓	39%	25%
NDA 2 2019	346 ✓	38%	25%
NDA 1 2019	342 ✓	38%	25%

Handwritten notes: "Target score" with a bracket pointing to 316, 360, and 355. A large green bracket groups the percentage column from 32% to 38%.

NDA Previous Years' Final Cut-Off Marks

Exam Year	Official Cut-Off Marks secured by last recommended candidate – after interview stage i.e., Exam + SSB (out of 1800)	Percentage as per Marks
NDA 2 2024	TO BE UPDATED	TO BE UPDATED
NDA 1 2024	TO BE UPDATED	TO BE UPDATED
NDA 2 2023	656	36%
NDA 1 2023	664	37%
NDA 2 2022	678	38%
NDA 1 2022	720	40%
NDA 2 2021	726	40%
NDA 1 2021	709	39%
NDA 1 & 2 2020	723	40%
NDA 2 2019	709	39%
NDA 1 2019	704	39%

How Much To Score in NDA 1 2025 Exam

- Following is the safest prediction score to be maintained and remembered as per analysis:

SUBJECT	TOTAL MARKS	CUT-OFF MARKS	CUT-OFF PERCENTAGE
Mathematics	300	75	25%
General Ability Test	600	150	25%
Total Marks	900	225	25%
Expected Last Recommended Candidate (Written) Cut Off Marks	900	350 TO 360	40%
Expected Last Recommended Candidate (Written + SSB) Cut Off Marks	1800	650 TO 710	40%

Marking System in Paper – 1 (Mathematics)

1 Question = **2.5 marks**

Negative marking = **0.83 marks for every incorrect answer**

Total no. of Questions = **120**

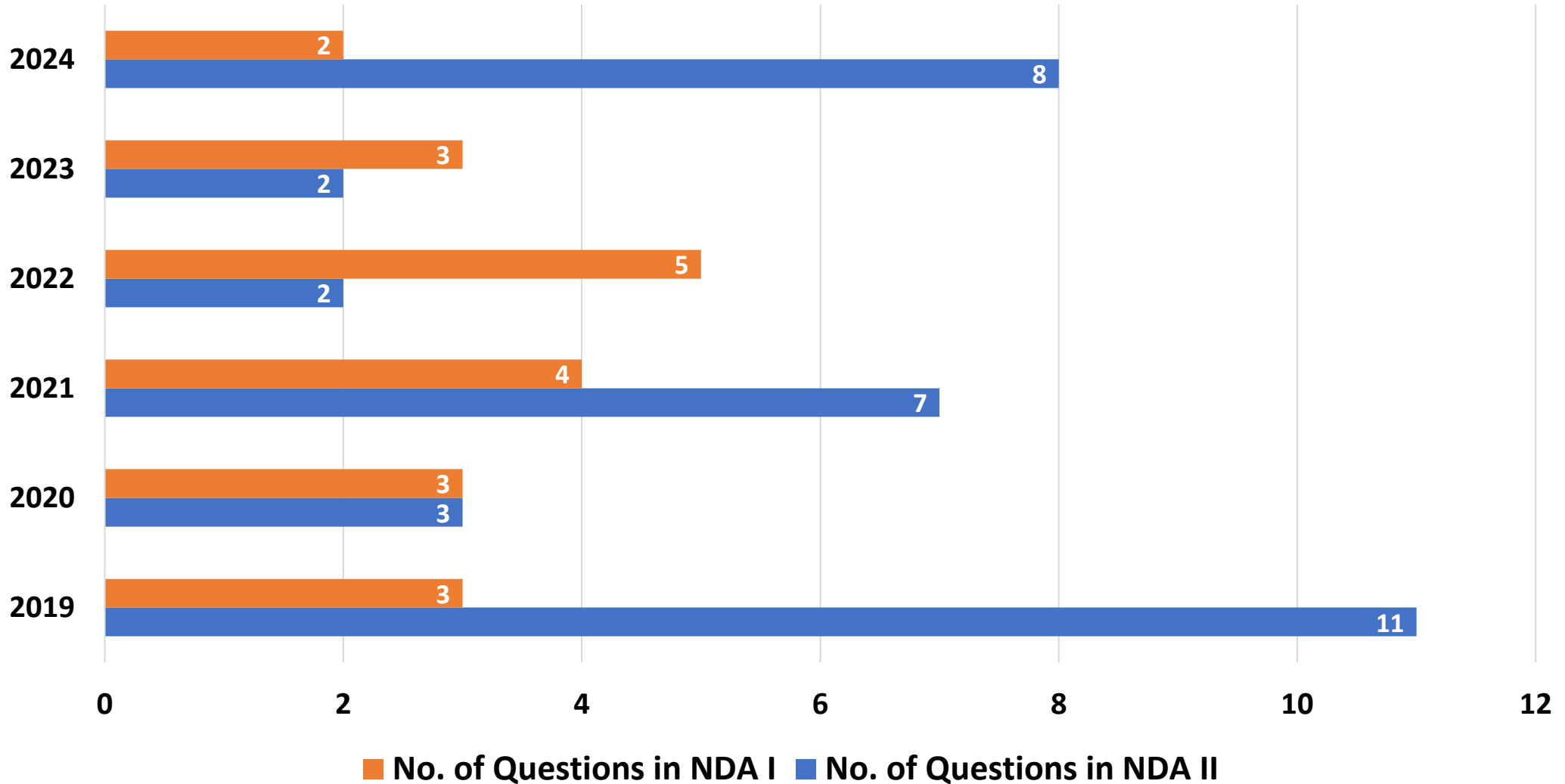
Total no. of Marks = **300 marks**

NDA 1 2025 Maths Syllabus

- Sets, Relations & Functions
- Quadratic Equations & Inequations
- Trigonometry
- Sequence & Series
- Complex Numbers
- Matrices & Determinants
- Differential Calculus
- Integral Calculus
- Analytical Geometry 2D
- Vector Algebra
- Analytical Geometry 3D
- Permutation And Combination
- Binomial Theorem
- Probability
- Statistics
- Logarithms
- Binary Numbers

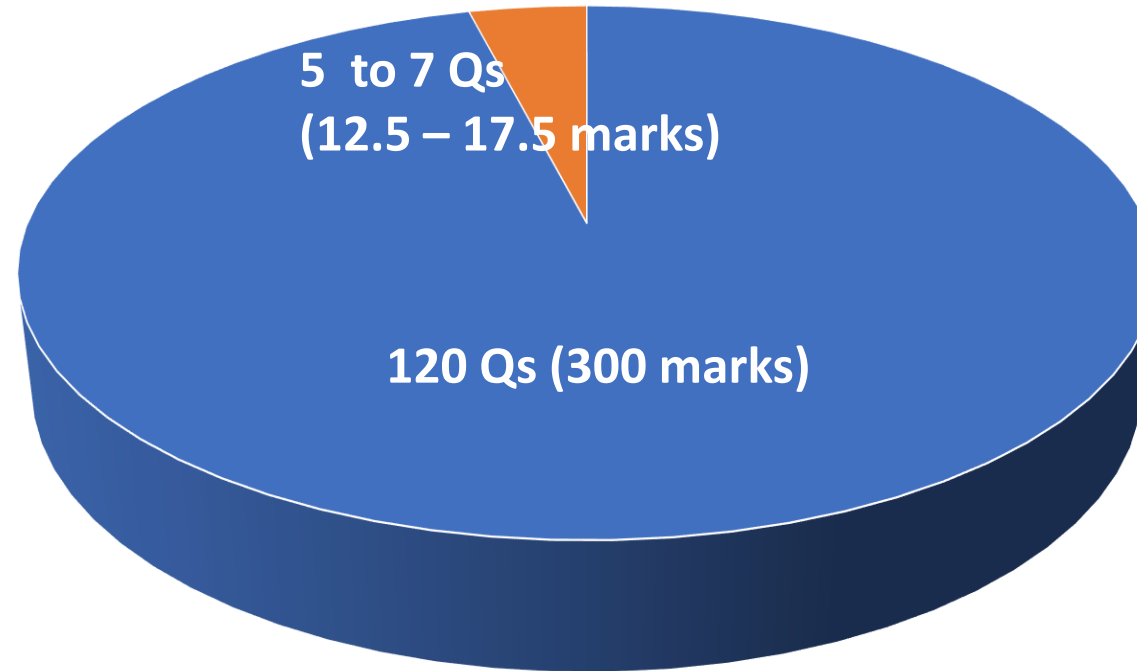
QUADRATIC EQUATIONS & INEQUATIONS

NDA Previous Years Q&A Analysis



QUADRATIC EQUATIONS & INEQUALITIES

Expected No. of Questions & Marks Division



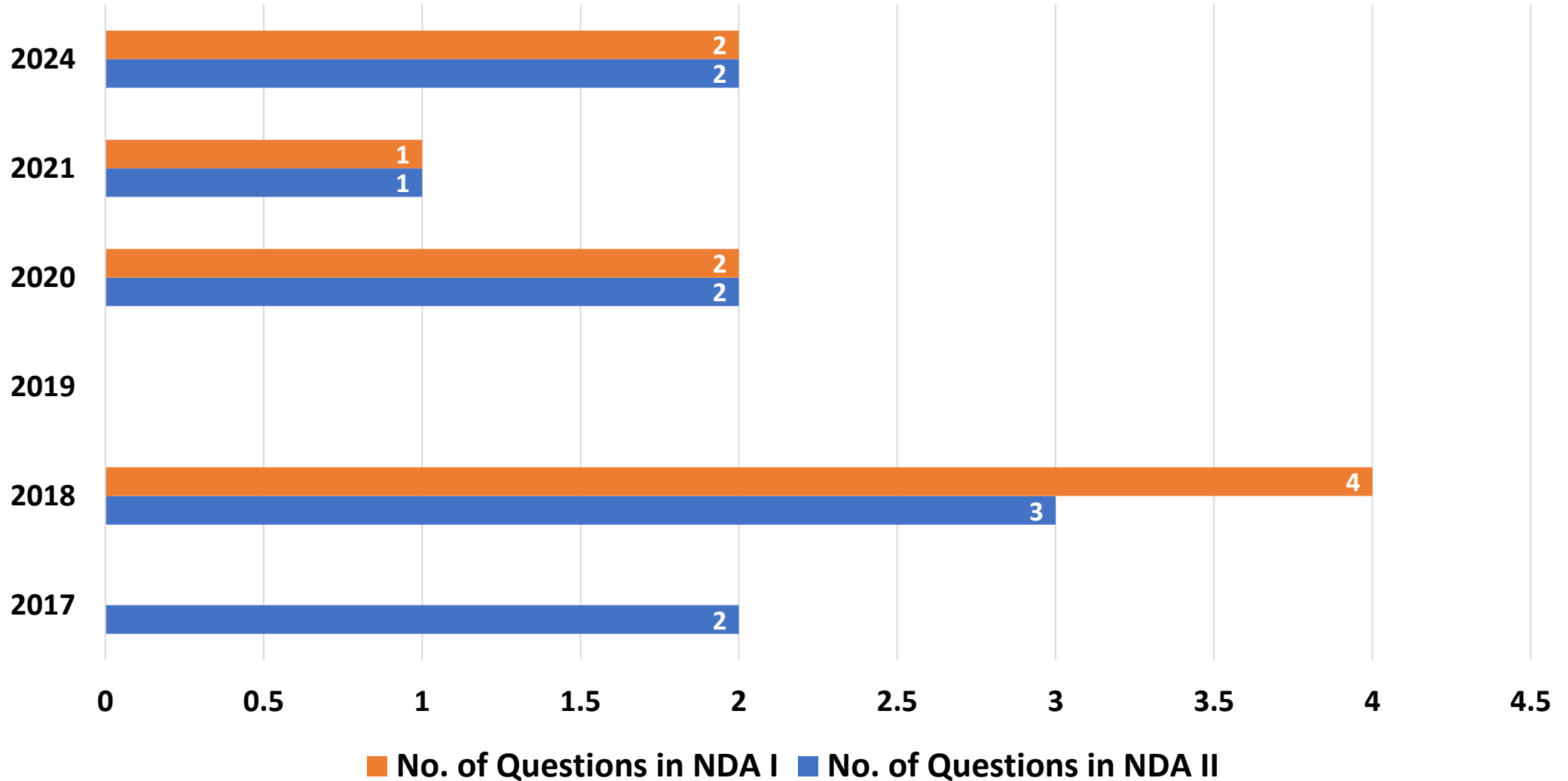
- Total no. of Questions & Marks
- No. of Quadratic Equations and Inequalities Questions & Marks (Approx.)

Topic Importance: Quadratic Equations & Inequations

- Very Basic but very useful in other topics also.
- Should know the methods of solving the equations and inequations.
- A less weightage topic is Polynomials.
- Practice good number of questions.

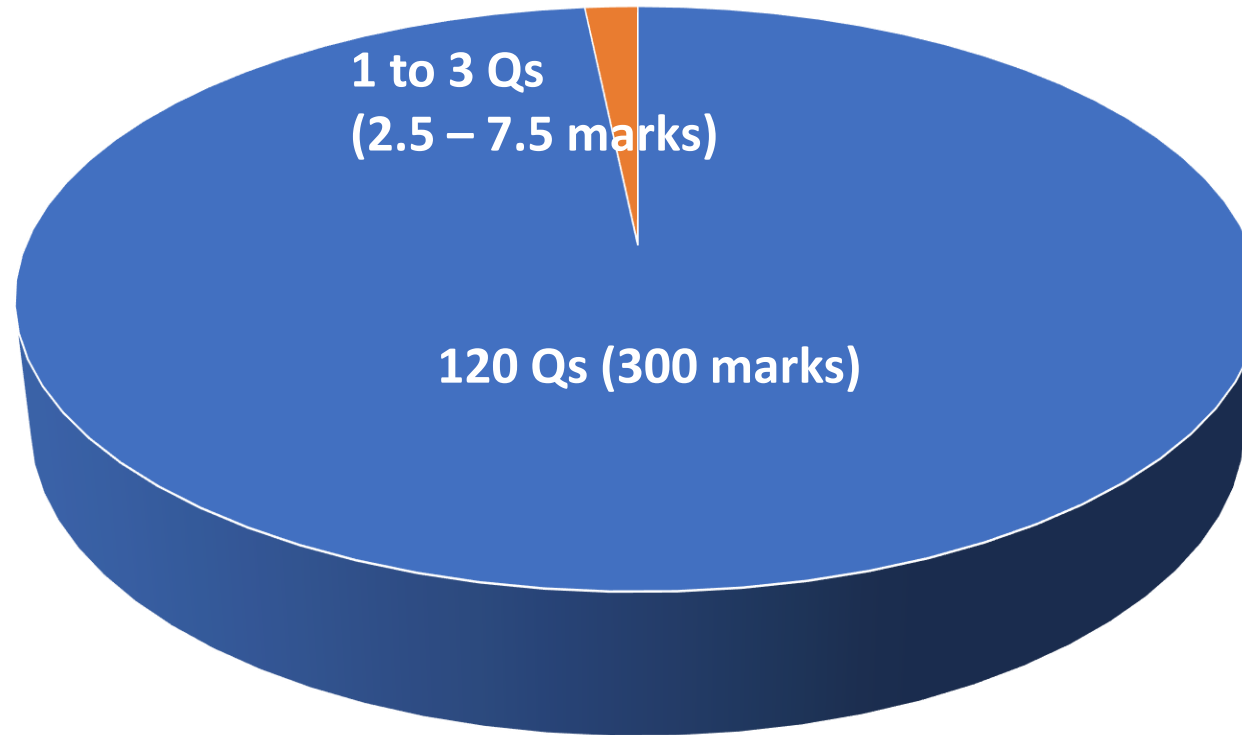
LOGARITHMS

NDA Previous Years Q&A Analysis



LOGARITHMS

Expected No. of Questions & Marks Division



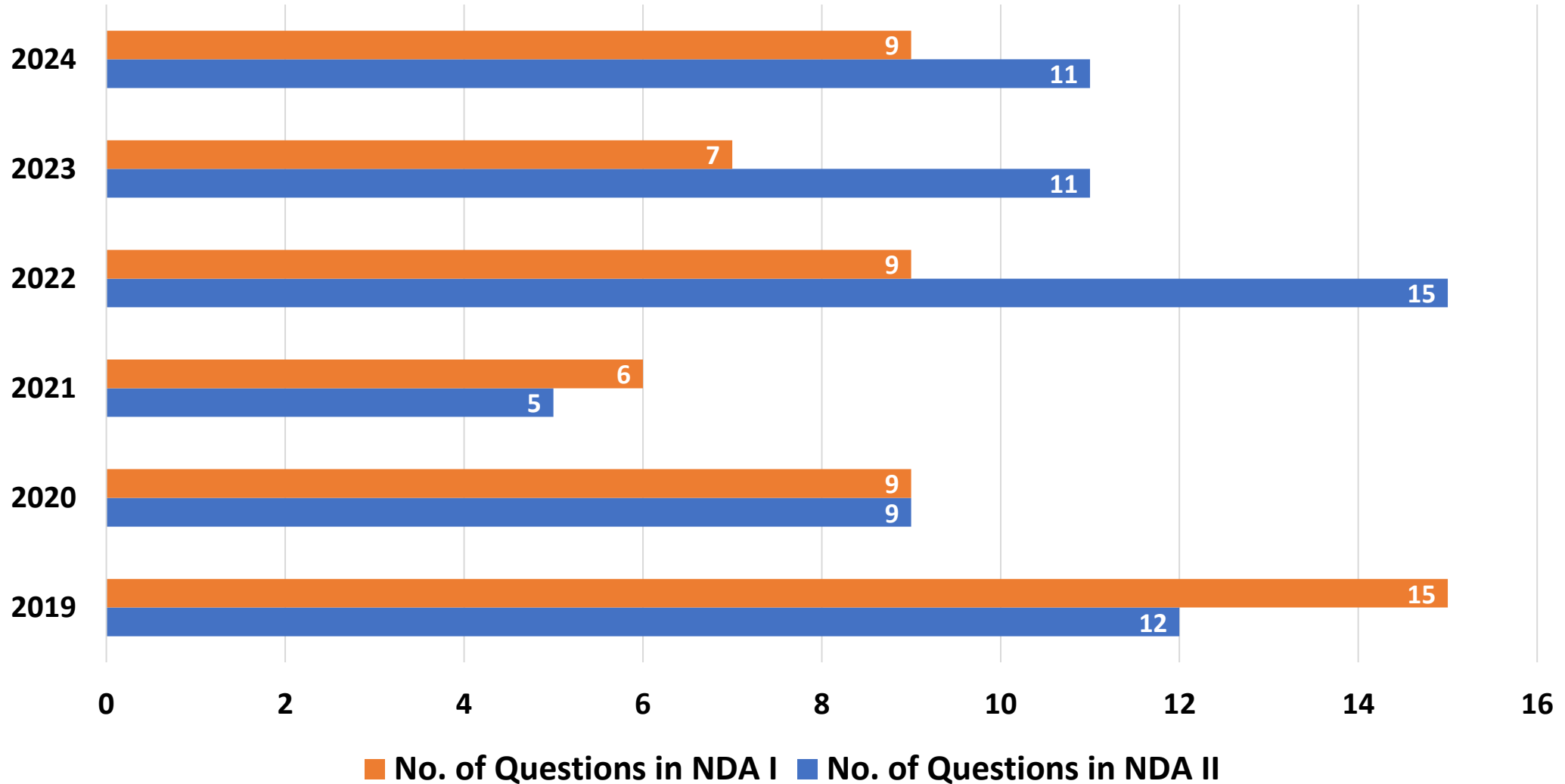
■ Total no. of Questions & Marks ■ No. of Logarithms & Marks (Approx.)

Topic Importance: Logarithms

- Remember all the basic properties and practice some questions.

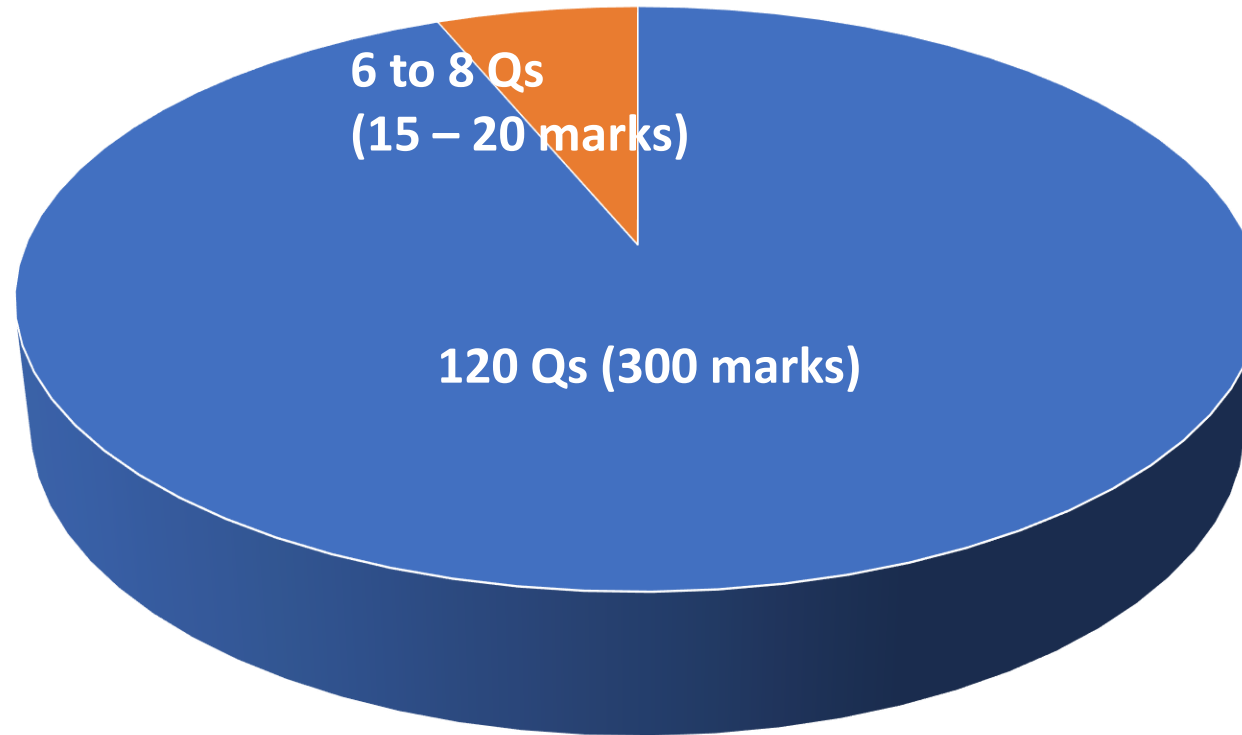
SETS, RELATIONS & FUNCTIONS

NDA Previous Years Q&A Analysis



SETS, RELATIONS & FUNCTIONS

Expected No. of Questions & Marks Division



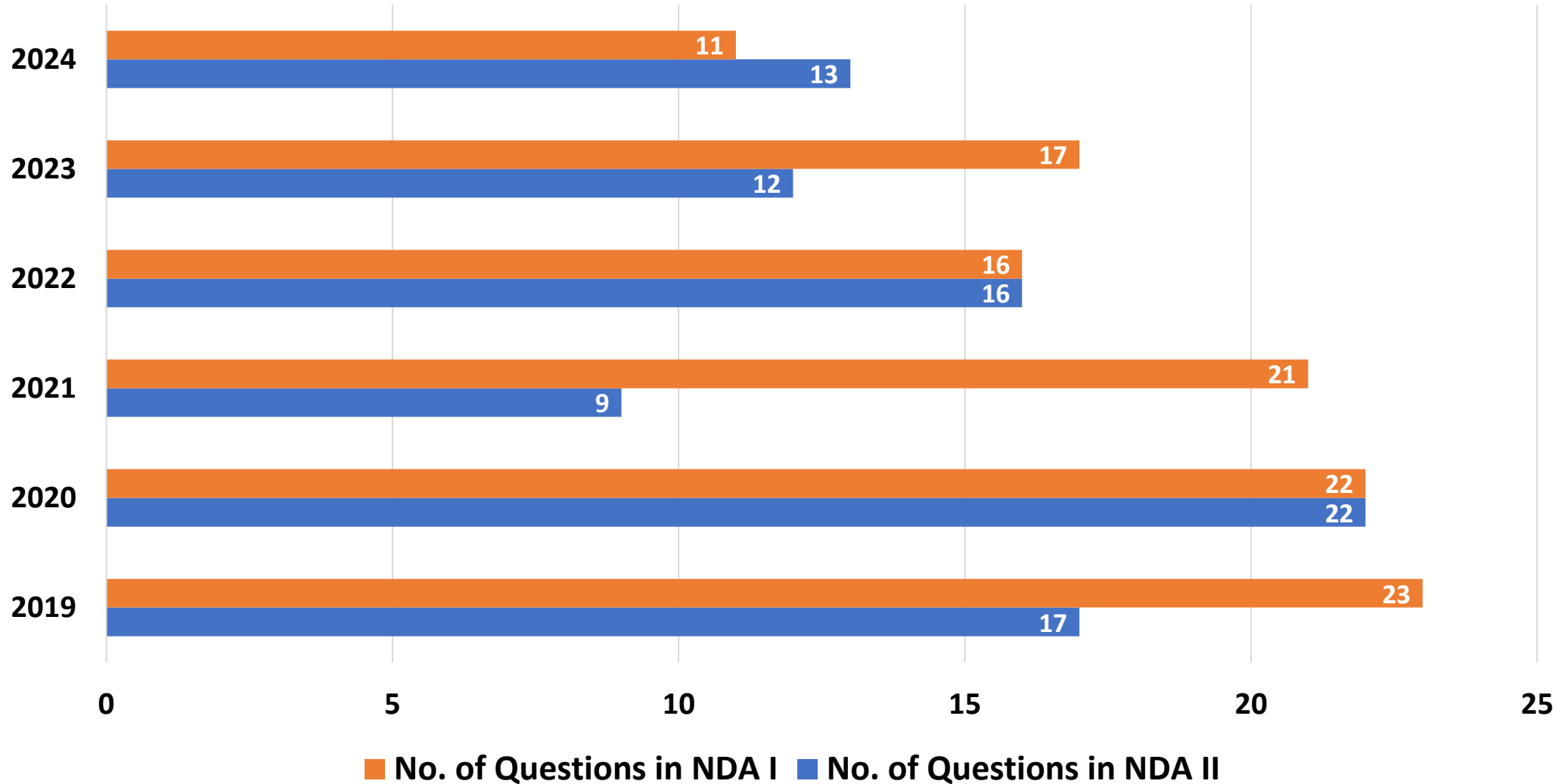
- Total no. of Questions & Marks
- No. of Sets, Relations and Functions Questions & Marks (Approx.)

Topic Importance: Sets, Relations & Functions

- Maximum number of questions comes from Sets and Functions.
- In Sets focus more on Subset/Supersets, Power Sets, Intersection, Union, etc.
- In Functions, questions comes from Domain/Range, Composition of Functions, One-Onto functions, etc.
- Questions will be easy in nature.
- Practice good number of questions.

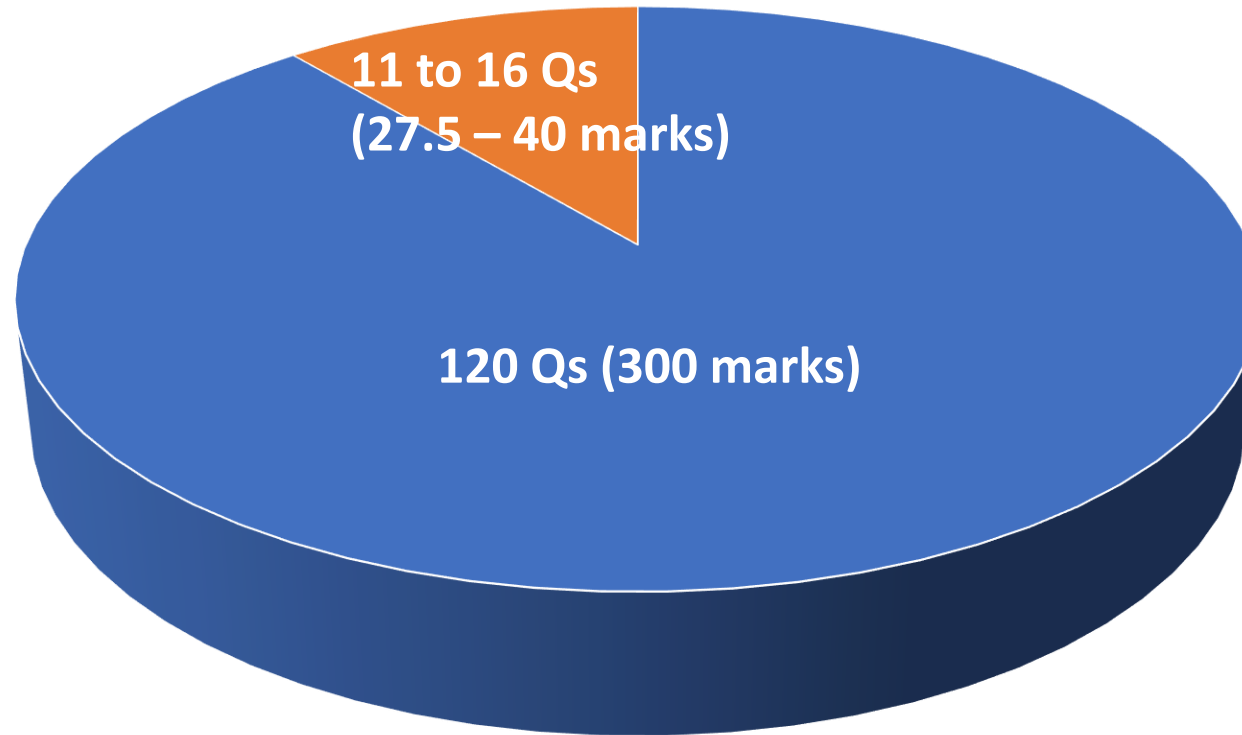
TRIGONOMETRY

NDA Previous Years Q&A Analysis



TRIGONOMETRY

Expected No. of Questions & Marks Division



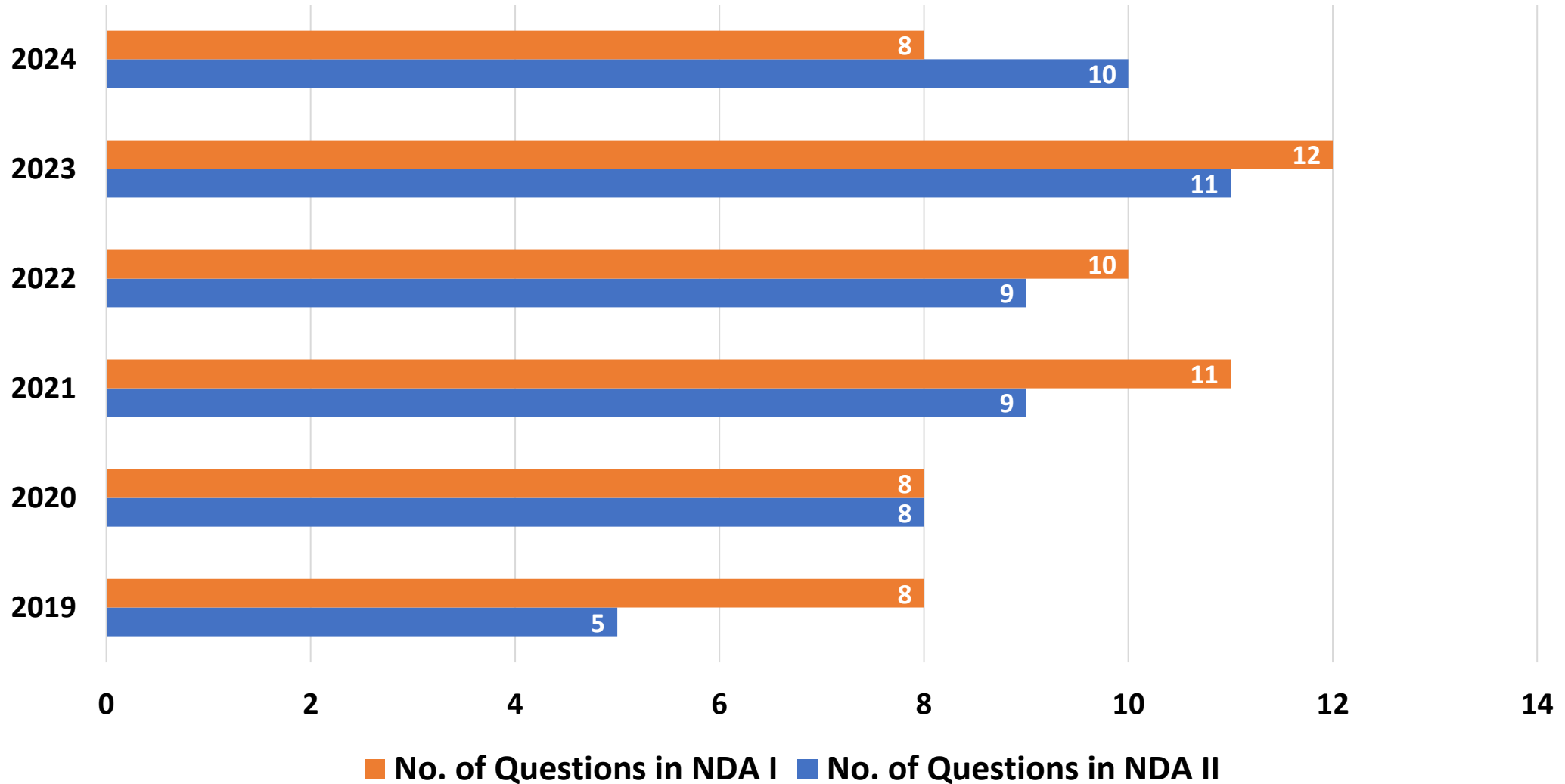
- Total no. of Questions & Marks
- No. of Trigonometry Questions & Marks (Approx.)

Topic Importance: Trigonometry

- This topic consists of questions based upon topics of trigonometric ratios, inverse trigonometric, height and distances and properties of triangles.
- Most important part is Trigonometric ratios and identities.
- Basics of trigonometric should be very strong.
- Make a formulas sheet and revise it multiple times.
- Practice good number of questions for bright results.

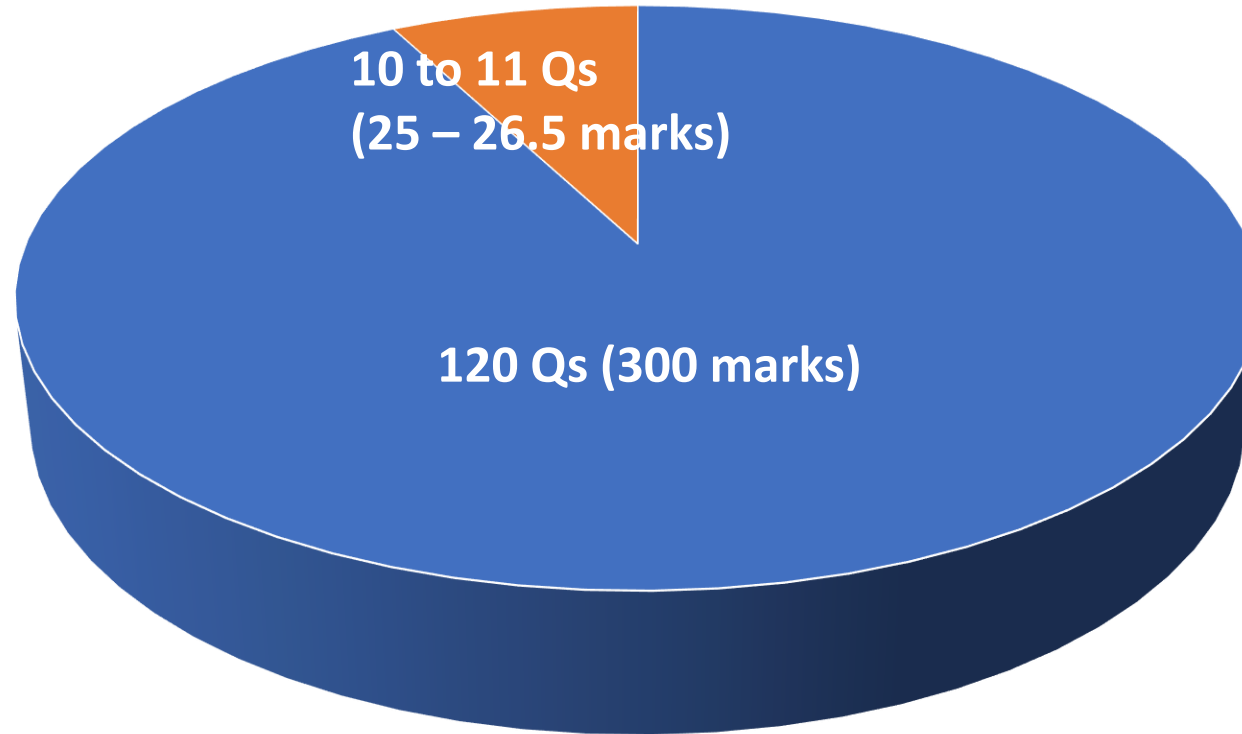
MATRICES & DETERMINANTS

NDA Previous Years Q&A Analysis



MATRICES & DETERMINANTS

Expected No. of Questions & Marks Division



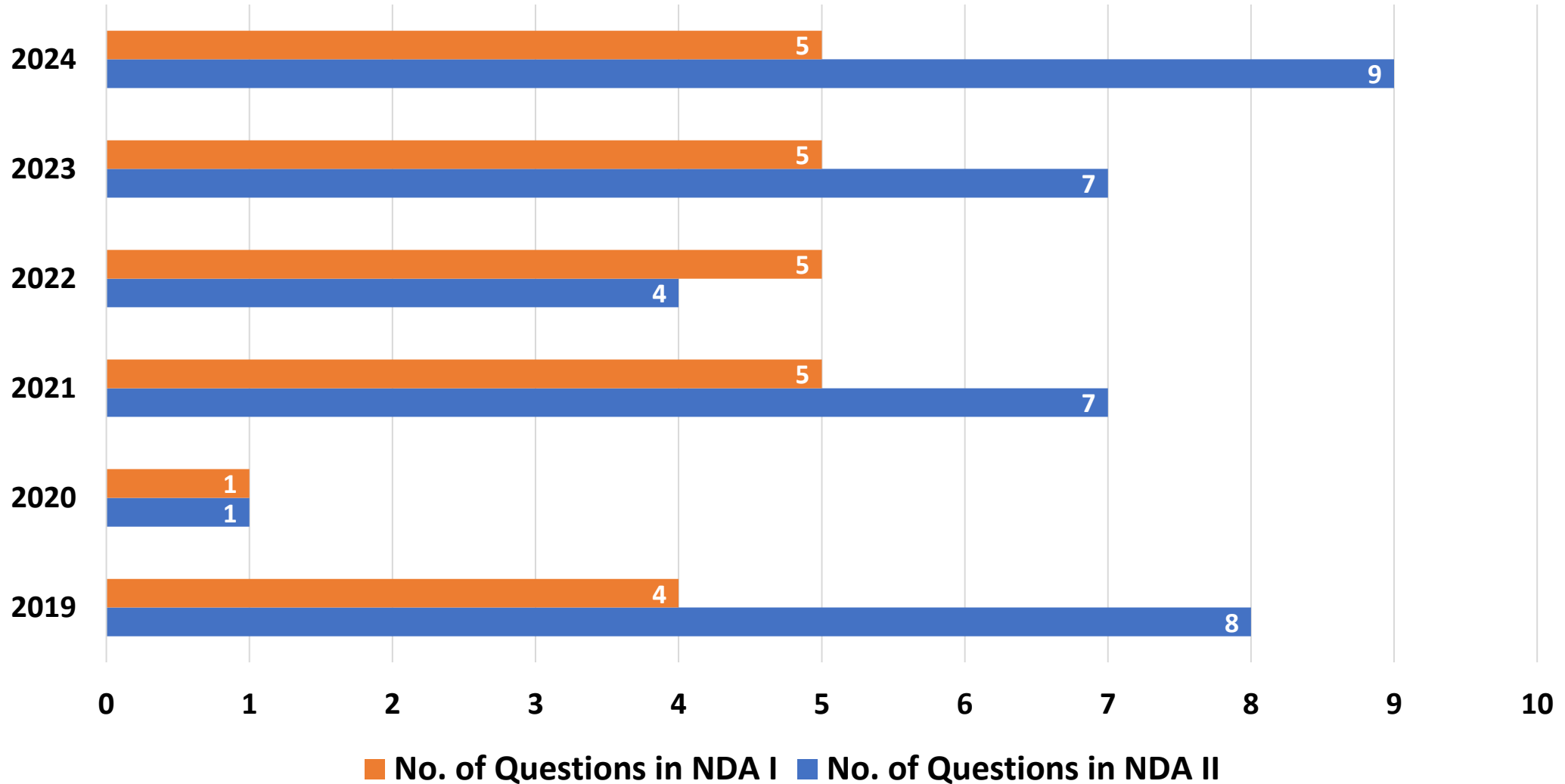
- Total no. of Questions & Marks
- No. of Matrices and Determinants Questions & Marks (Approx.)

Topic Importance: Matrices & Determinants

- Very easy and scoring topic.
- Cover the basic concepts like types of Matrices, Product of Matrices and Properties of Determinants. ✓ ✓ ✓
- Revise all the basic formulas. ✓
- Practice good number of questions.

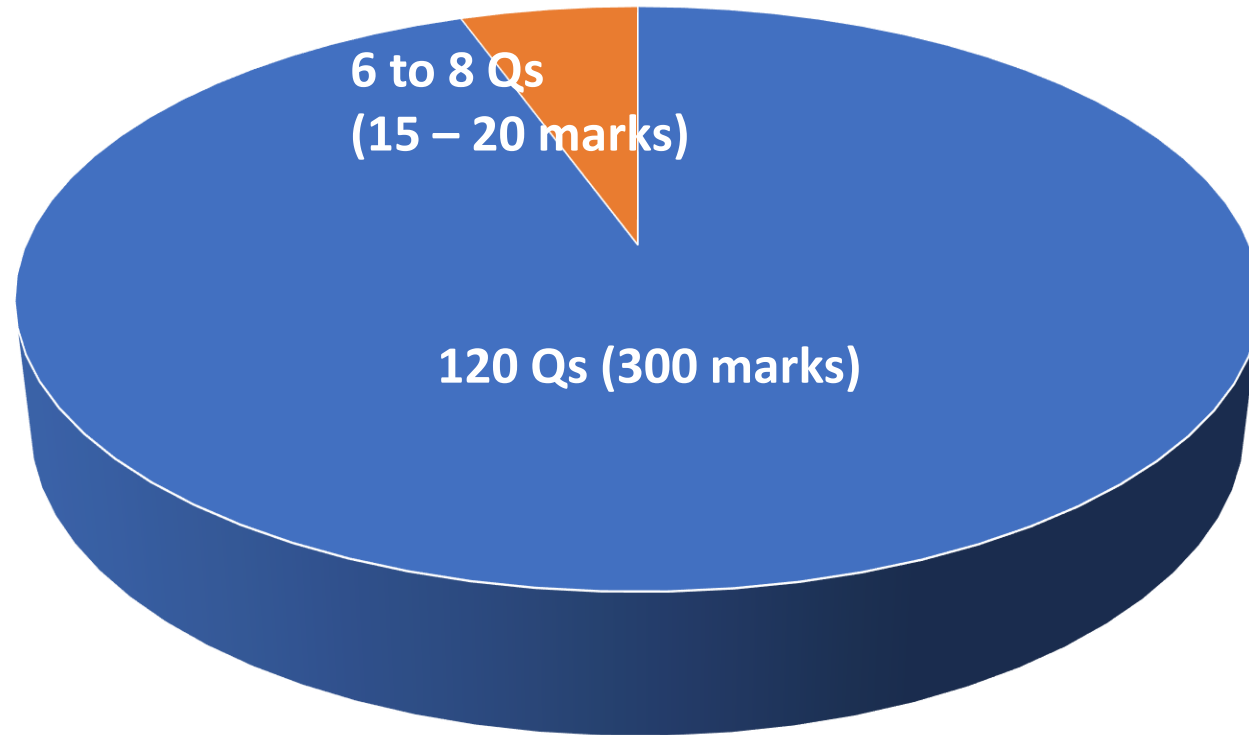
SEQUENCE & SERIES

NDA Previous Years Q&A Analysis



SEQUENCE & SERIES

Expected No. of Questions & Marks Division



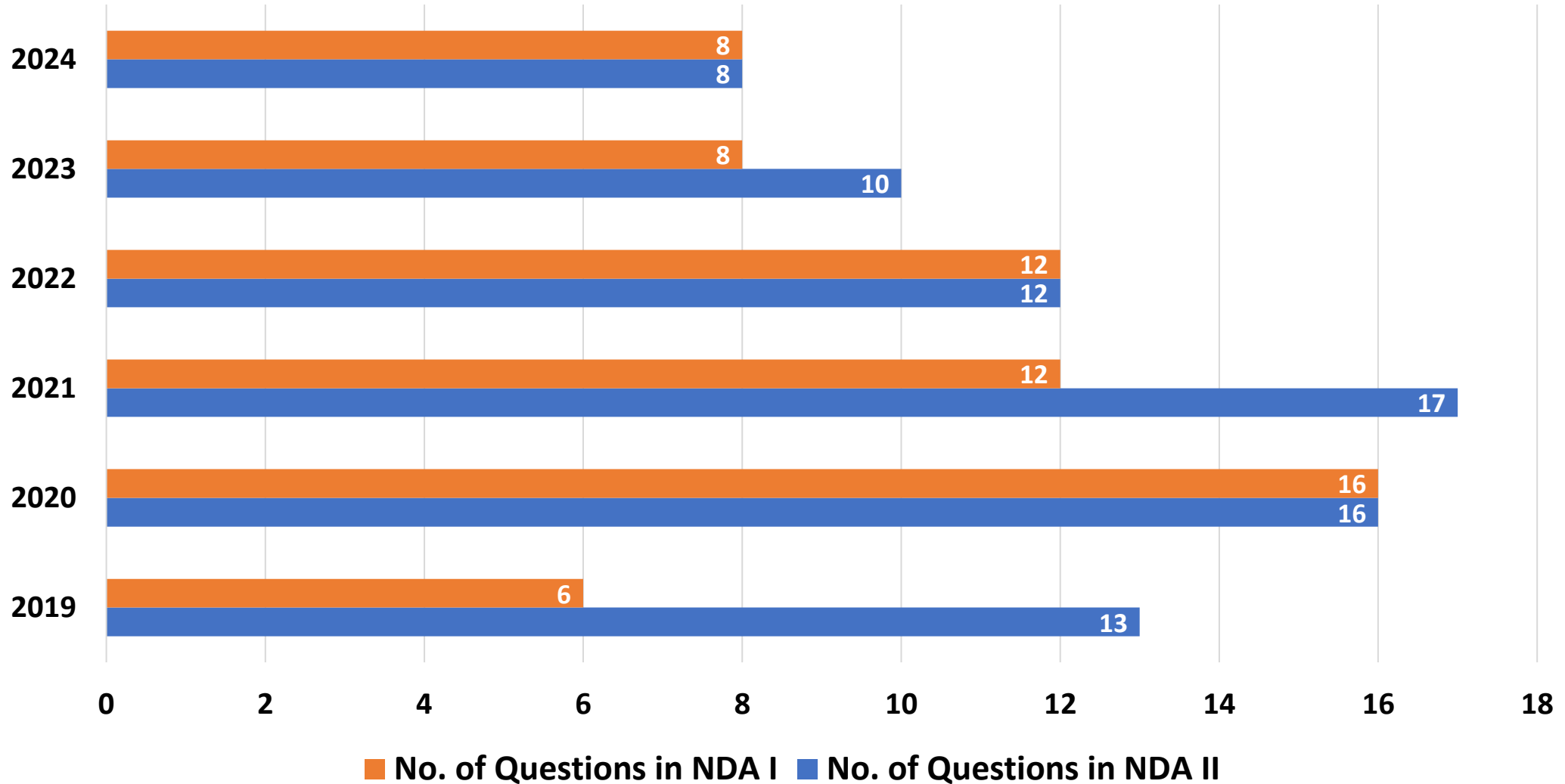
- Total no. of Questions & Marks
- No. of Sequence and Series Questions & Marks (Approx.)

Topic Importance: Sequence & Series

- This is a very basic topic.
- Cover the basics of AP, GP and HP.
- Remember all the important formulas.
- Practice good number of questions.

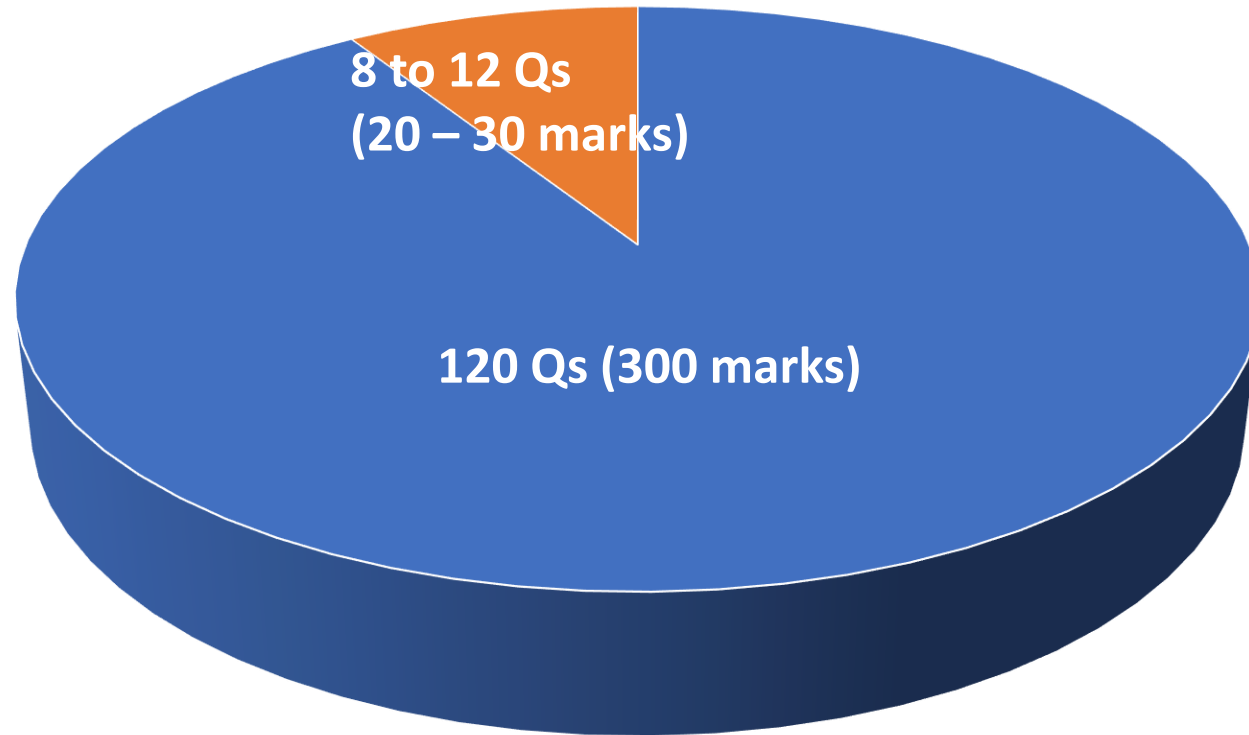
DIFFERENTIAL CALCULUS

NDA Previous Years Q&A Analysis



DIFFERENTIAL CALCULUS

Expected No. of Questions & Marks Division



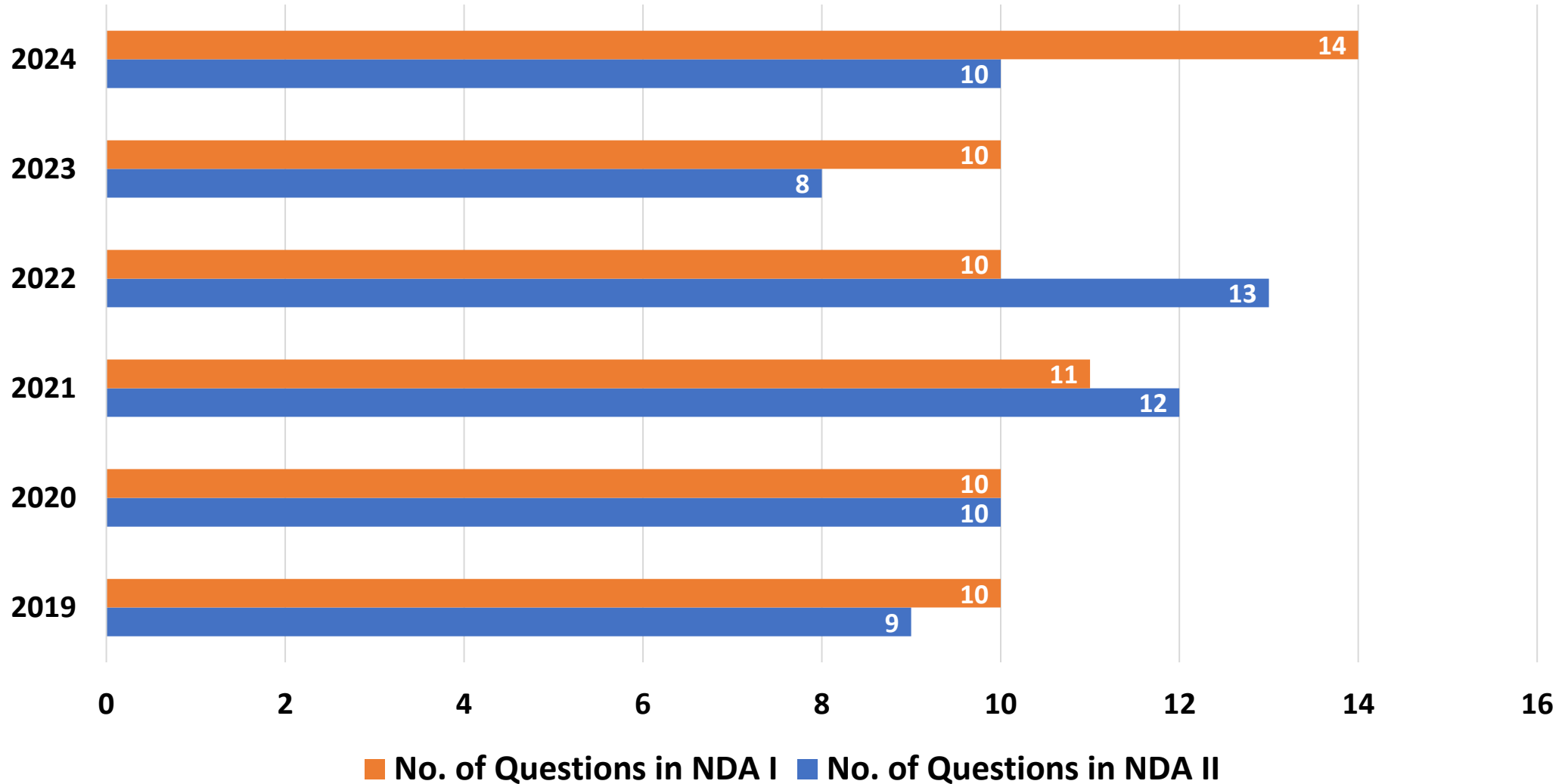
- Total no. of Questions & Marks
- No. of Differential Calculus Questions & Marks (Approx.)

Topic Importance: Differential Calculus

- This topic consists of questions on Limits, Continuity, Differentiability, Derivatives and Applications of Derivatives.
- Standard forms of Limits, continuity and derivatives are very important.
- Make a formulas sheet and revise it multiple times.
- AOD also contains very good number of questions, focus more on maxima – minima and increasing decreasing concepts.
- Practice is the key to success.

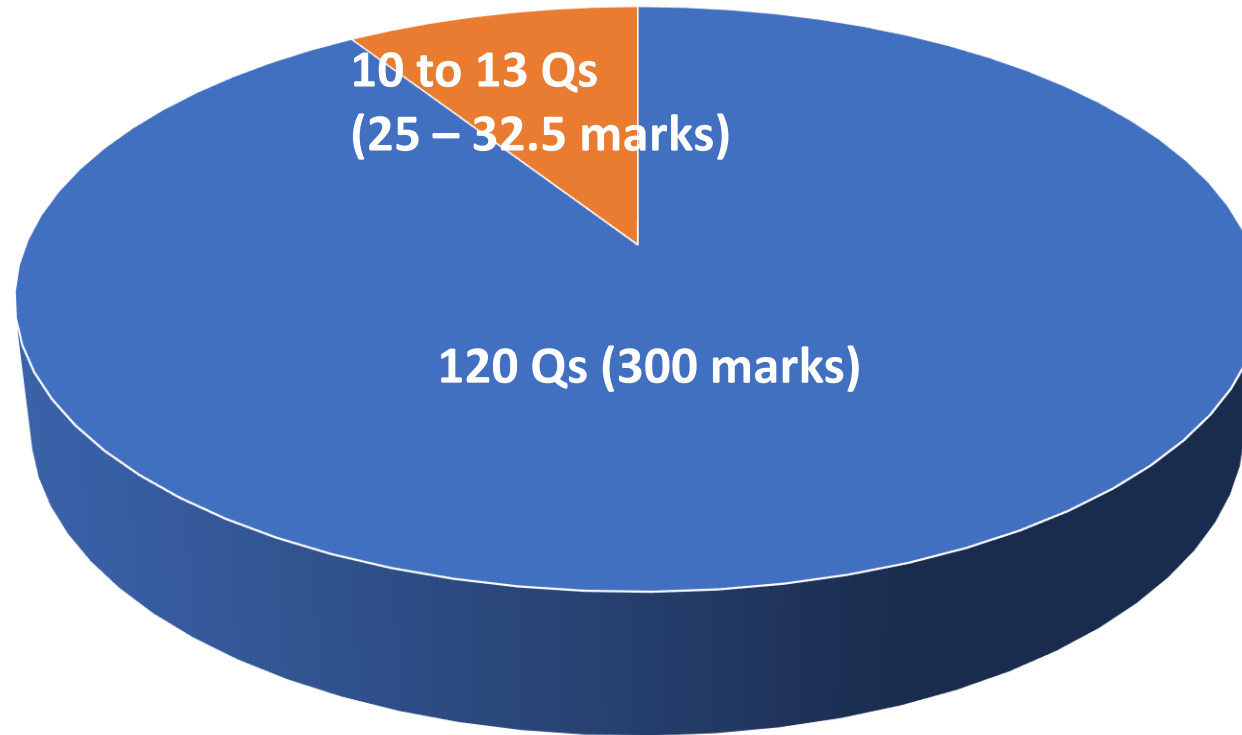
INTEGRAL CALCULUS

NDA Previous Years Q&A Analysis



INTEGRAL CALCULUS

Expected No. of Questions & Marks Division



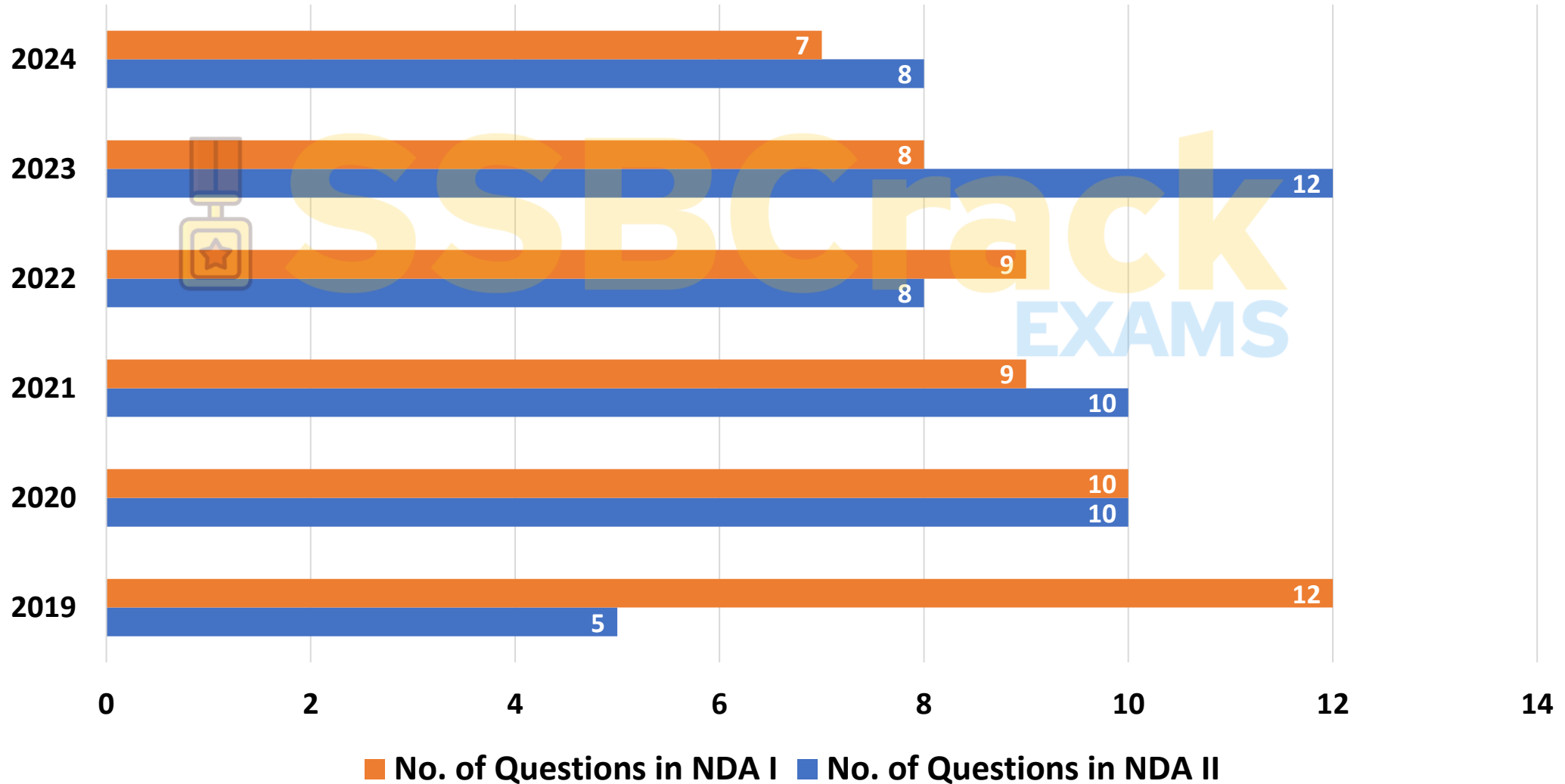
- Total no. of Questions & Marks
- No. of Integral Calculus Questions & Marks (Approx.)

Topic Importance: Integral Calculus

- This topic consists of questions on Definite & Indefinite integration, Areas bounded by regions and Differential Equations. ✓
- Standard forms of Integration is very important.
- Don't forget to cover the important properties of indefinite integration. ✓
- Make a formulas sheet and revise it multiple times.
- Practice good number of questions.

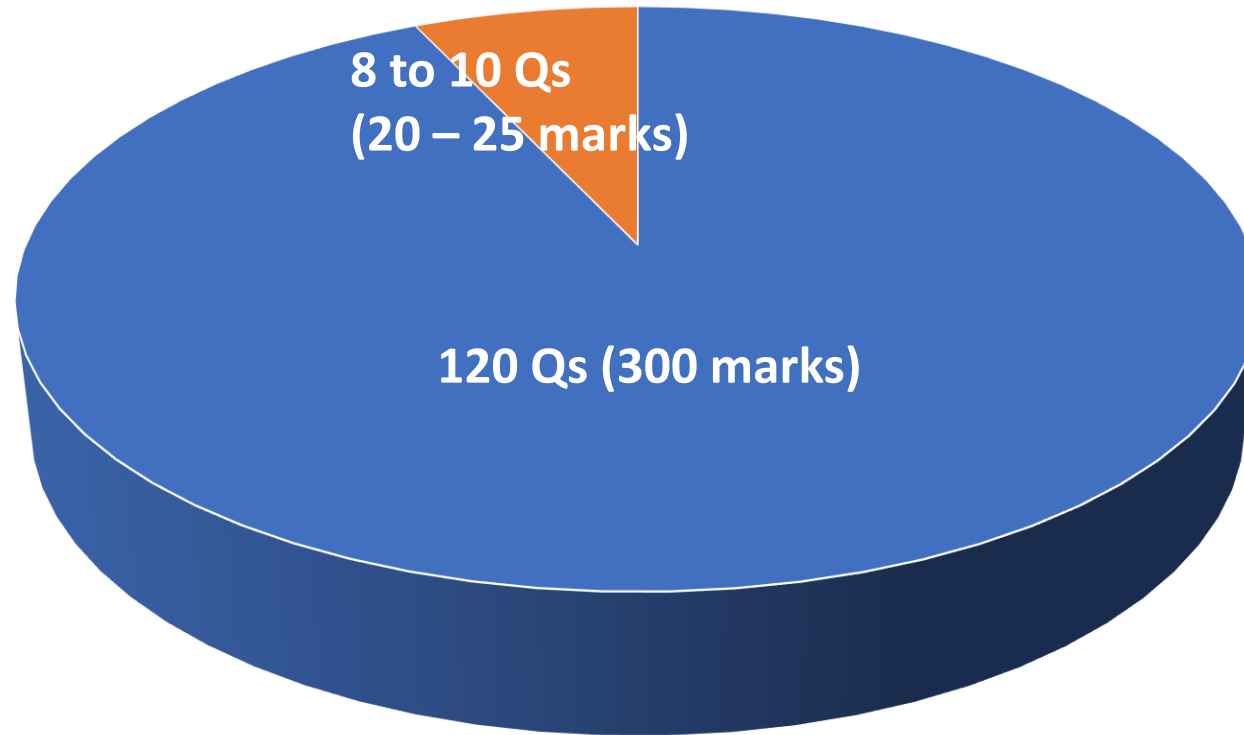
ANALYTICAL GEOMETRY 2D

NDA Previous Years Q&A Analysis



ANALYTICAL GEOMETRY 2D

Expected No. of Questions & Marks Division



■ Total no. of Questions & Marks

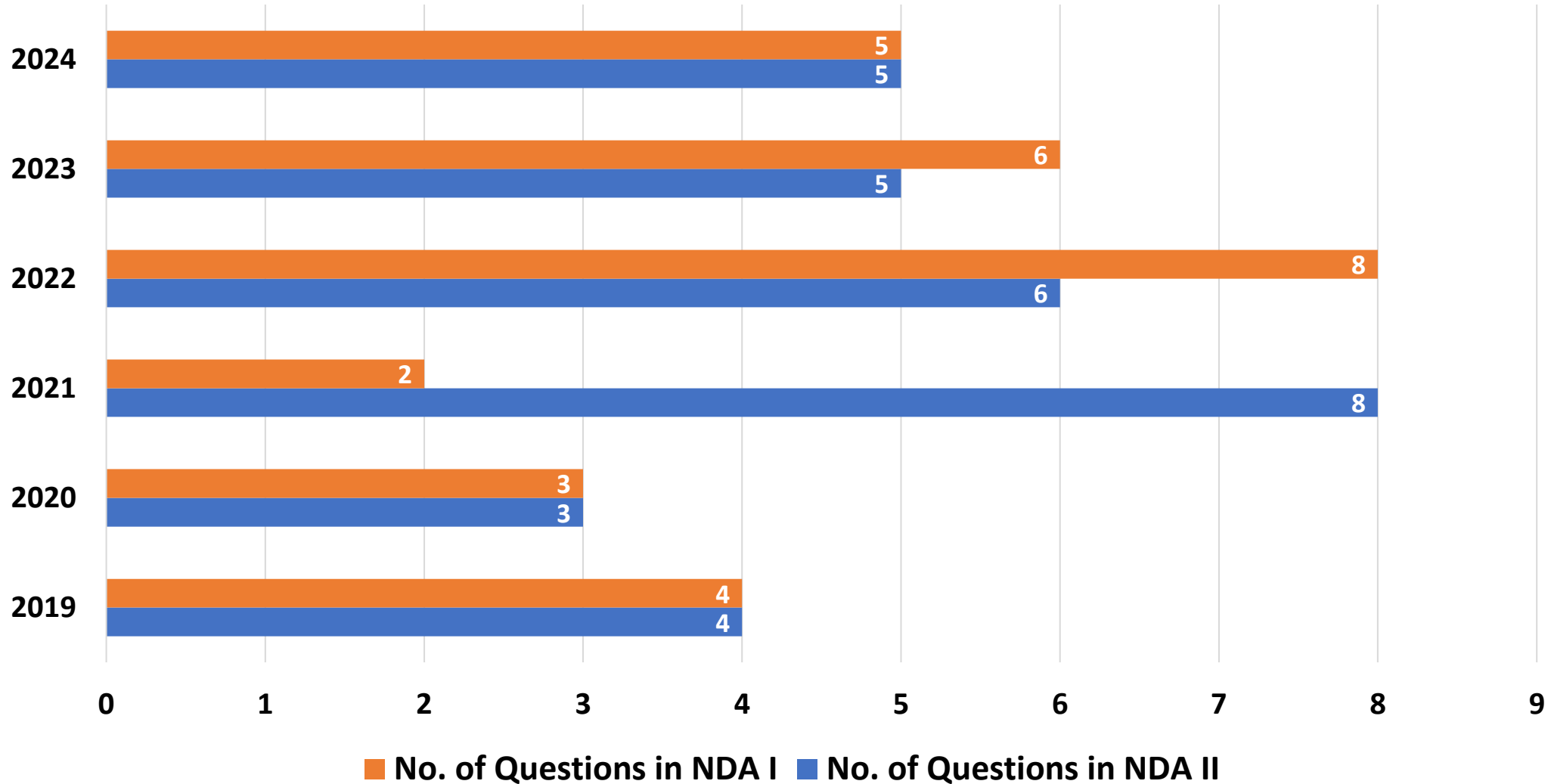
■ No. of 2D Geometry Questions & Marks (Approx.)

Topic Importance: Analytical Geometry 2D

- This topic consists of questions on Basic Coordinate Geometry, Straight Lines and Conic Sections.
- Straight Lines contains Maximum number of questions.
- Focus more on conceptual knowledge and in conics just cover the basics.
- Practice good number of questions.

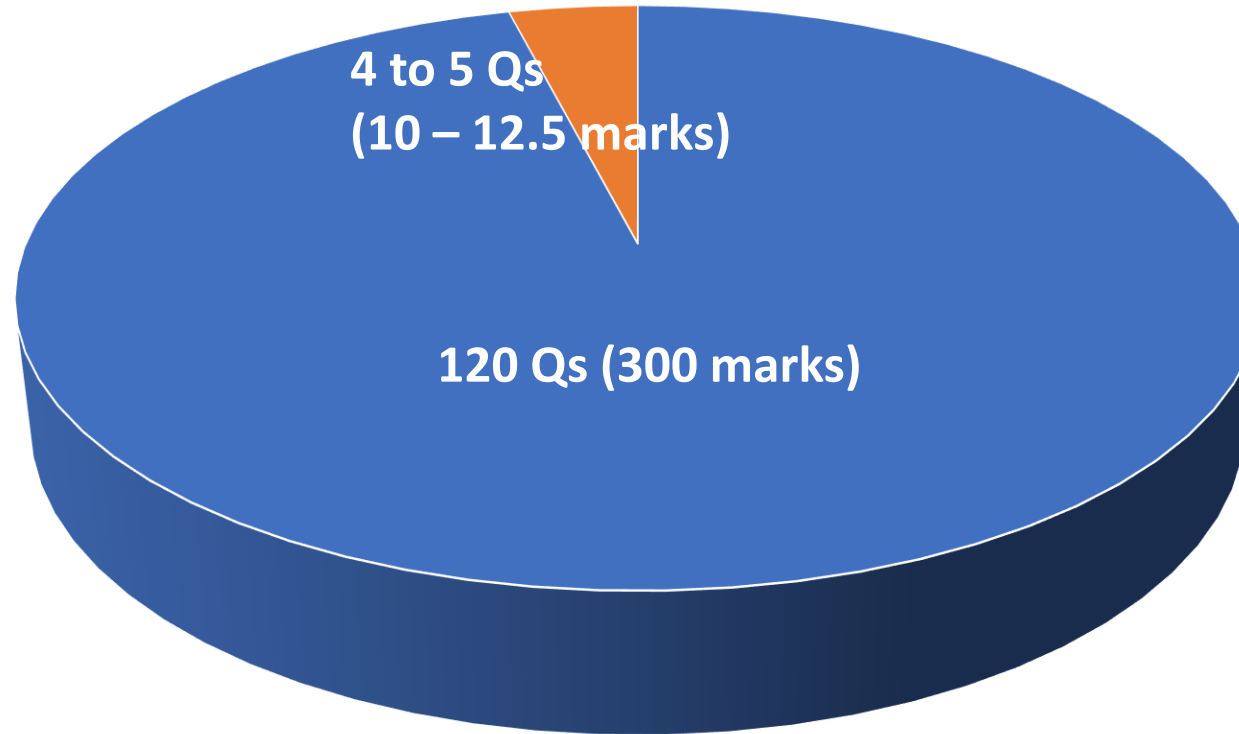
PERMUTATION AND COMBINATION

NDA Previous Years Q&A Analysis



PERMUTATION AND COMBINATION

Expected No. of Questions & Marks Division



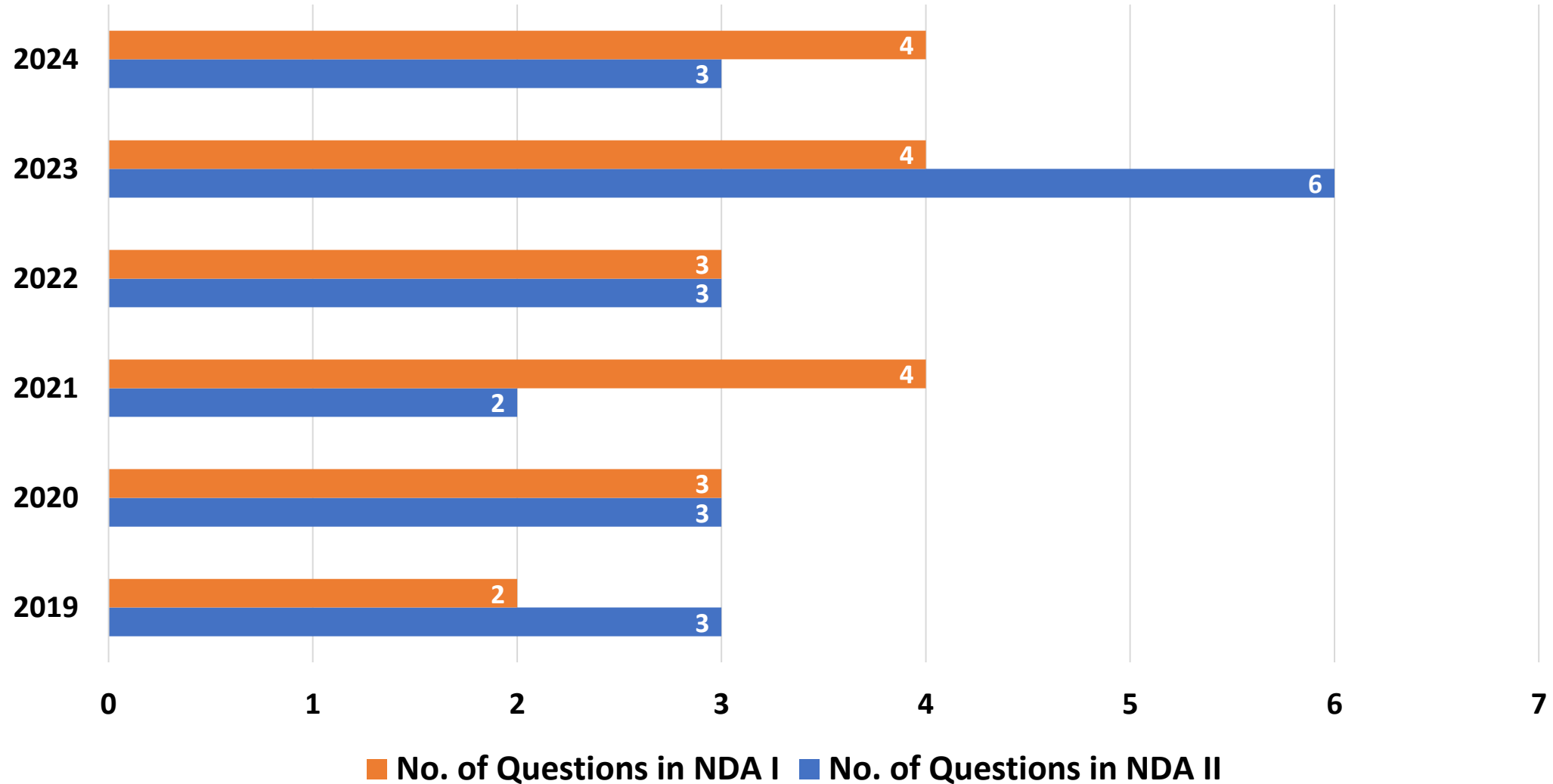
- Total no. of Questions & Marks
- No. of Permutation and Combination Questions & Marks (Approx.)

Topic Importance: Permutation And Combination

- Cover the basic concepts of Permutation and Combination along with the important formulas.
- Practice good number of questions.

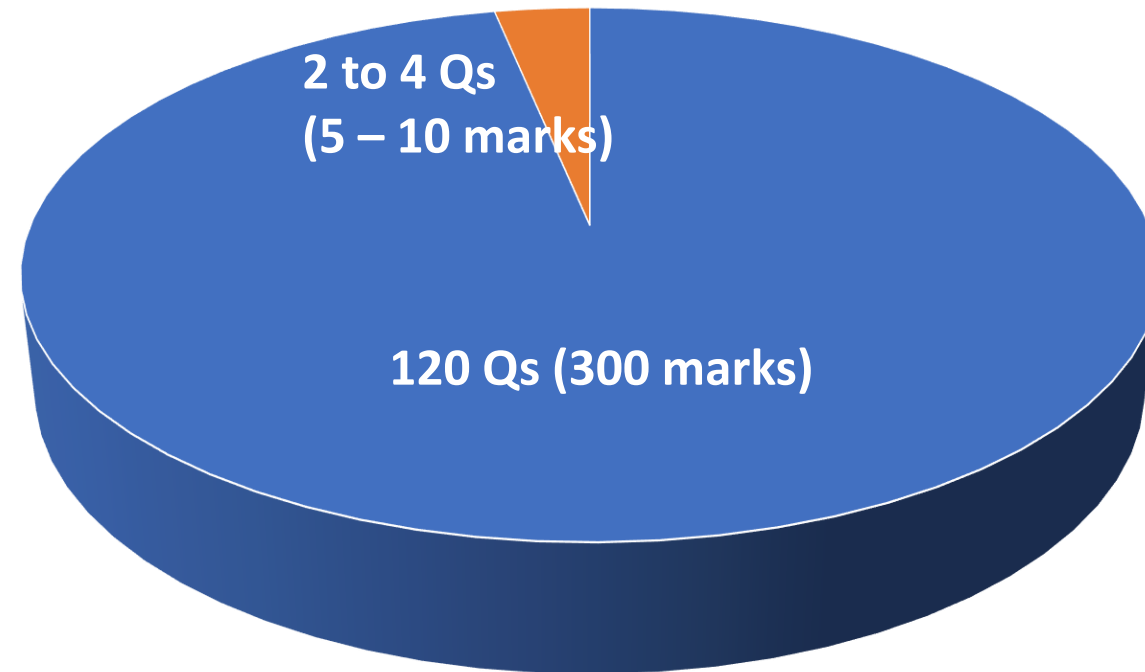
Binomial Theorem

NDA Previous Years Q&A Analysis



Binomial Theorem

Expected No. of Questions & Marks Division



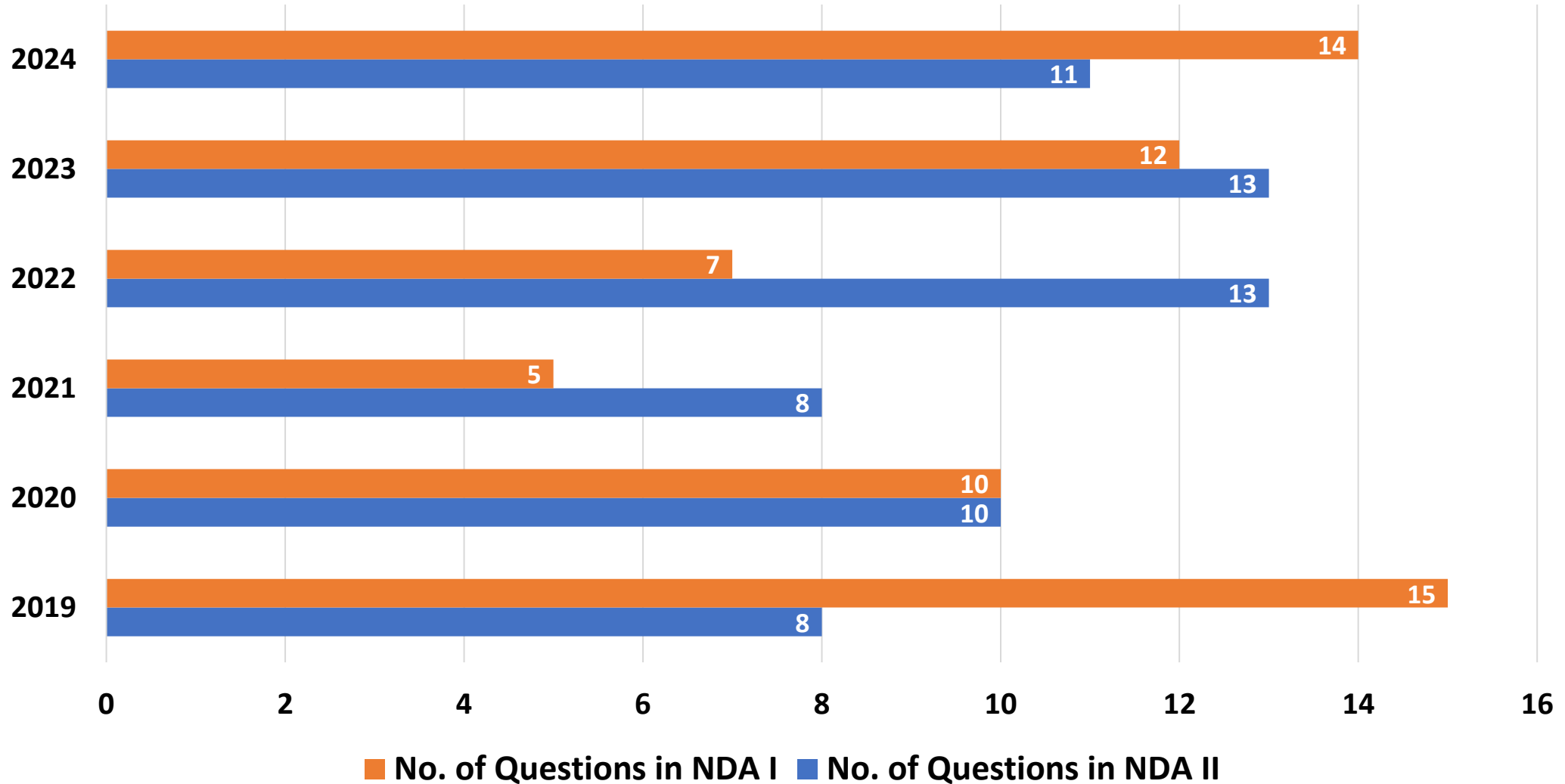
- Total no. of Questions & Marks
- No. of Polynomials and Binomial Theorem Questions & Marks (Approx.)

Topic Importance: Binomial Theorem

- Cover the basics of Binomial Theorem along with the important formulas.
- Practice good number of questions.

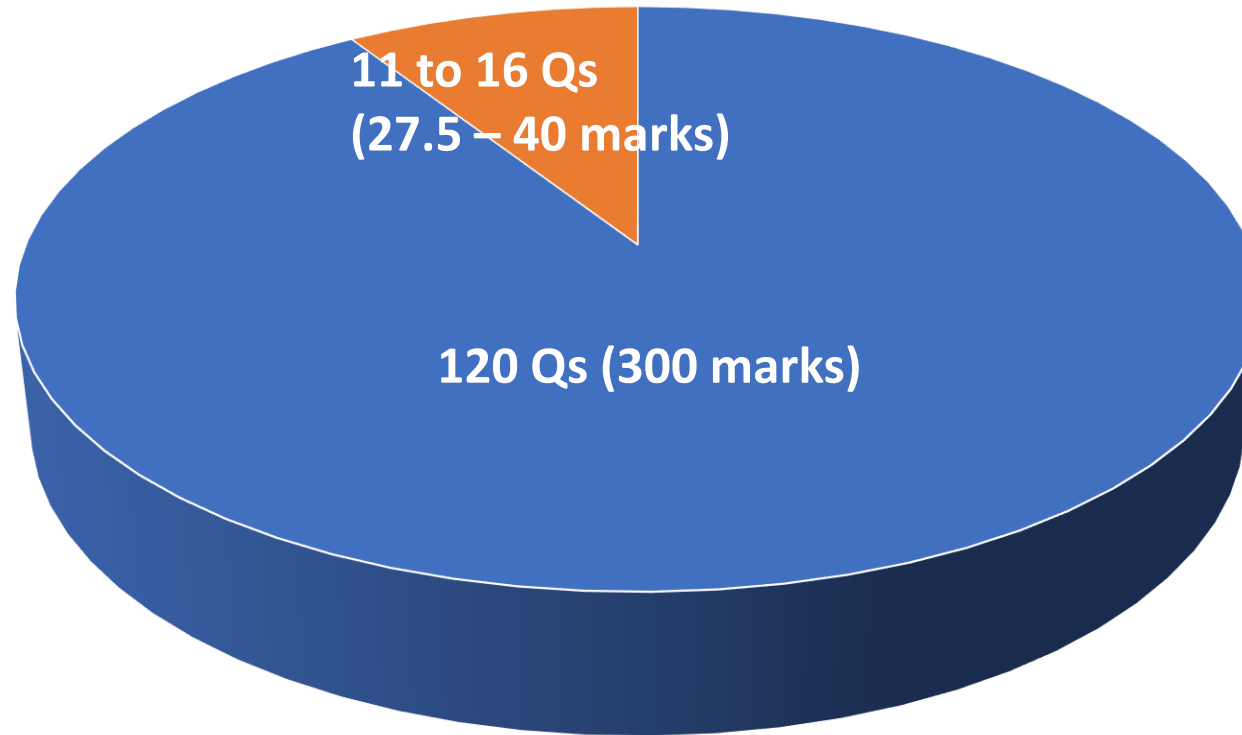
PROBABILITY

NDA Previous Years Q&A Analysis



PROBABILITY

Expected No. of Questions & Marks Division



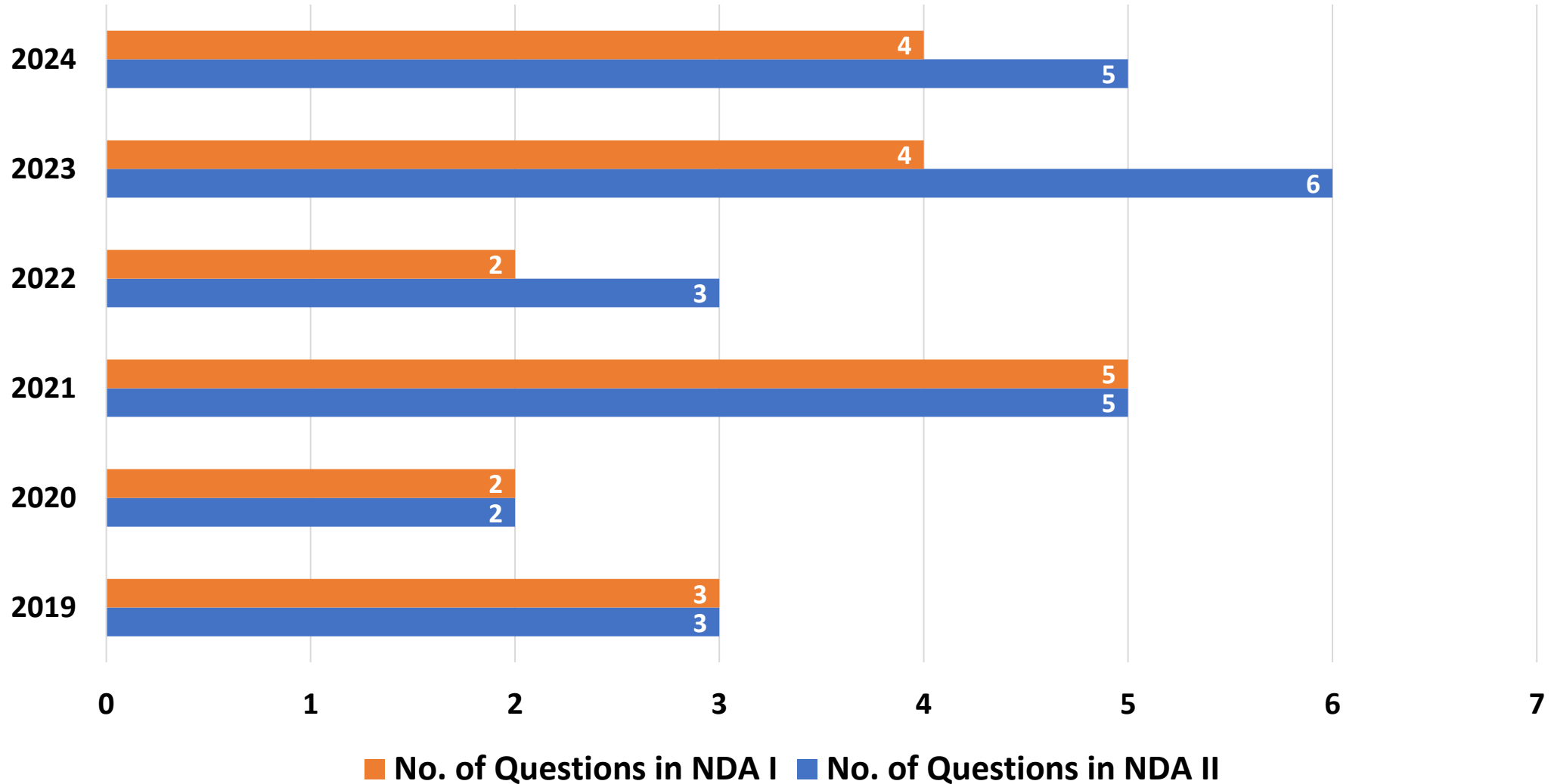
- Total no. of Questions & Marks
- No. of Probability Questions & Marks (Approx.)

Topic Importance: Probability

- Basic concepts should be very strong like conditional Probability, Binomial Distribution, its Mean, Variance, etc.
- Concepts of Sets and Permutation and Combination will be very much helpful.
- Make a formulas sheet and revise it multiple times.
- Practice good number of questions.

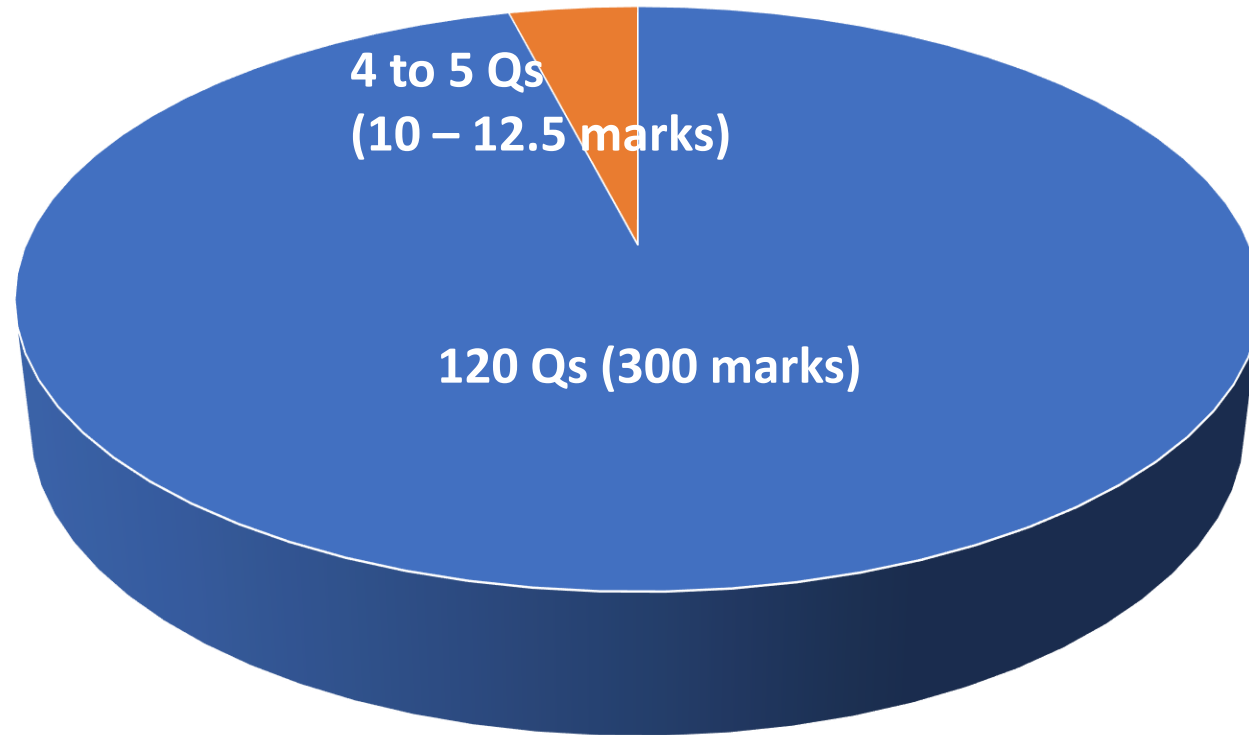
COMPLEX NUMBERS

NDA Previous Years Q&A Analysis



COMPLEX NUMBERS

Expected No. of Questions & Marks Division



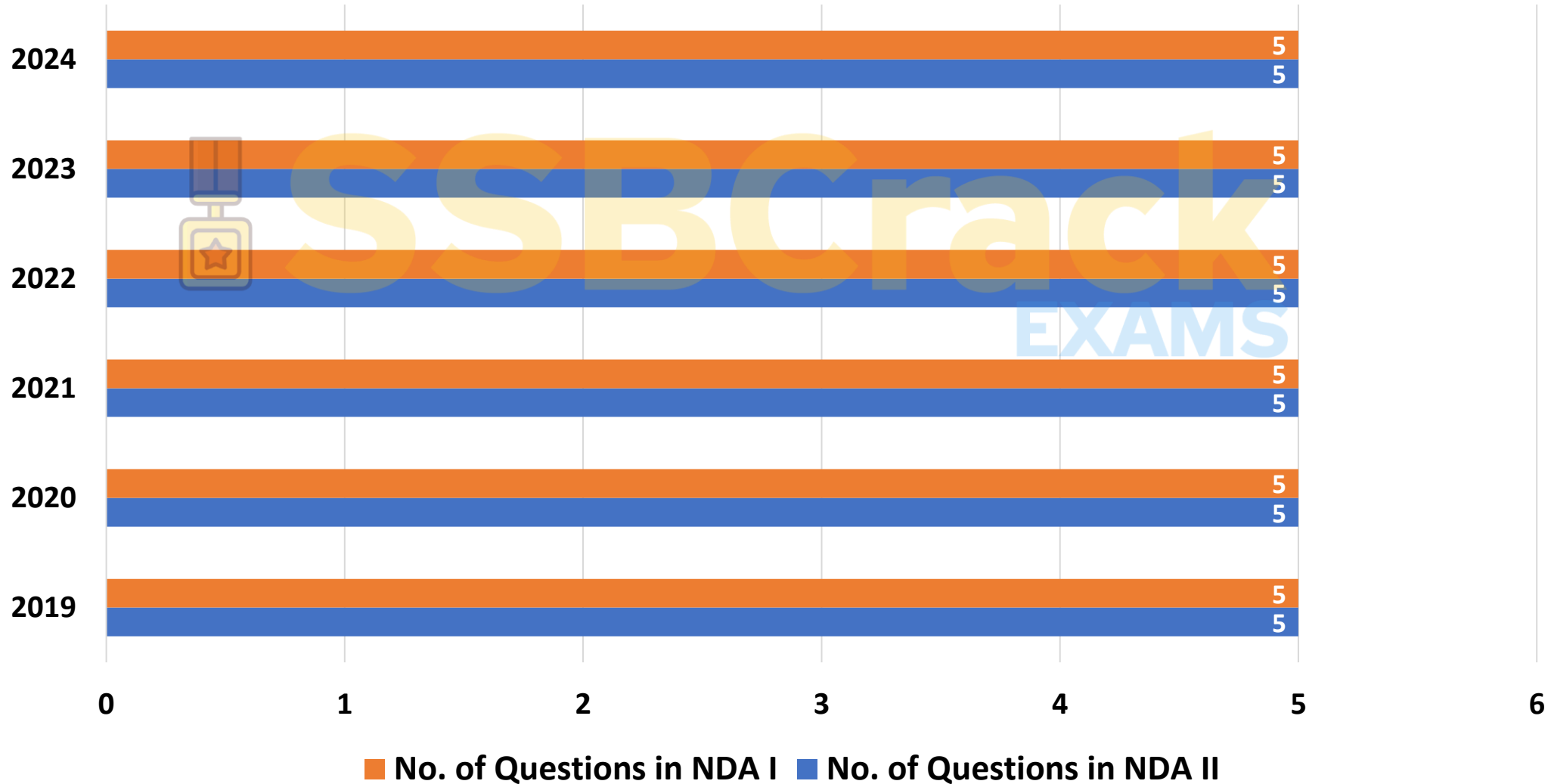
- Total no. of Questions & Marks
- No. of Complex Numbers Questions & Marks (Approx.)

Topic Importance: Complex Numbers

- Very easy chapter and scoring one.
- Just focus on basic concepts like Modulus, Conjugate and Argument and also cover
(Cube root of Unity.)
- Practice good number of questions.

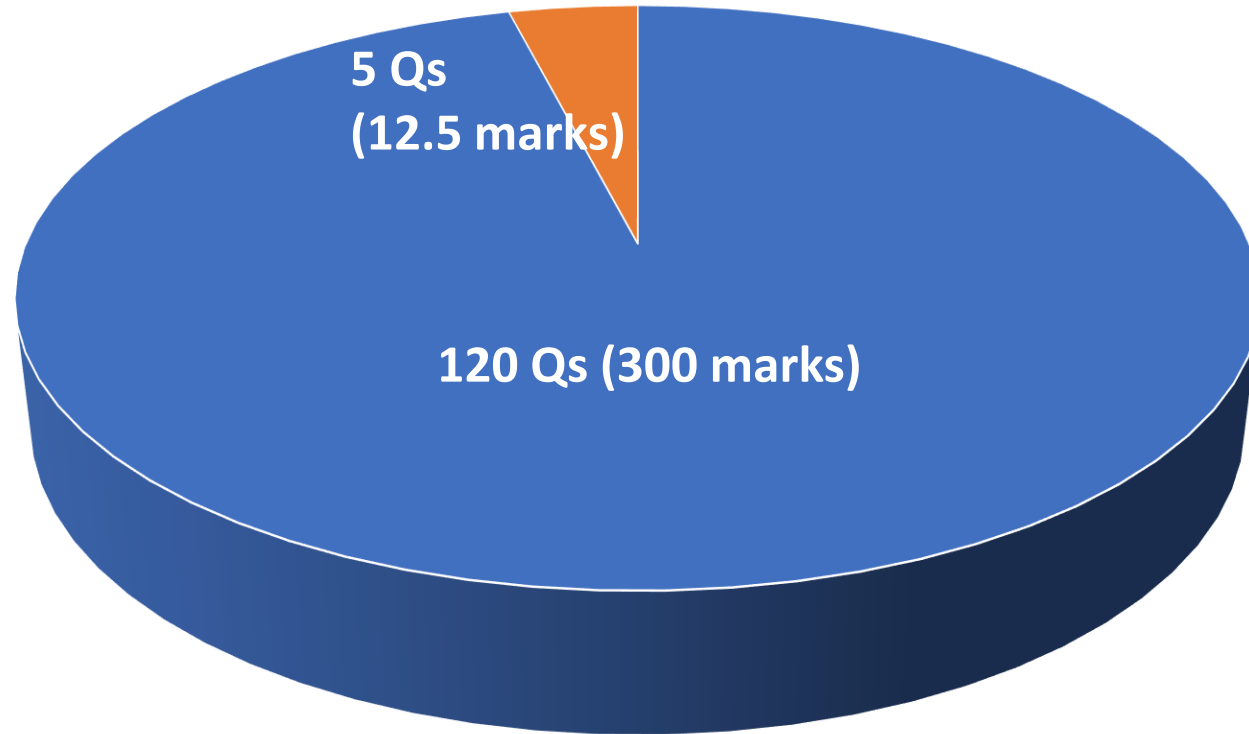
VECTOR ALGEBRA

NDA Previous Years Q&A Analysis



VECTOR ALGEBRA

Expected No. of Questions & Marks Division



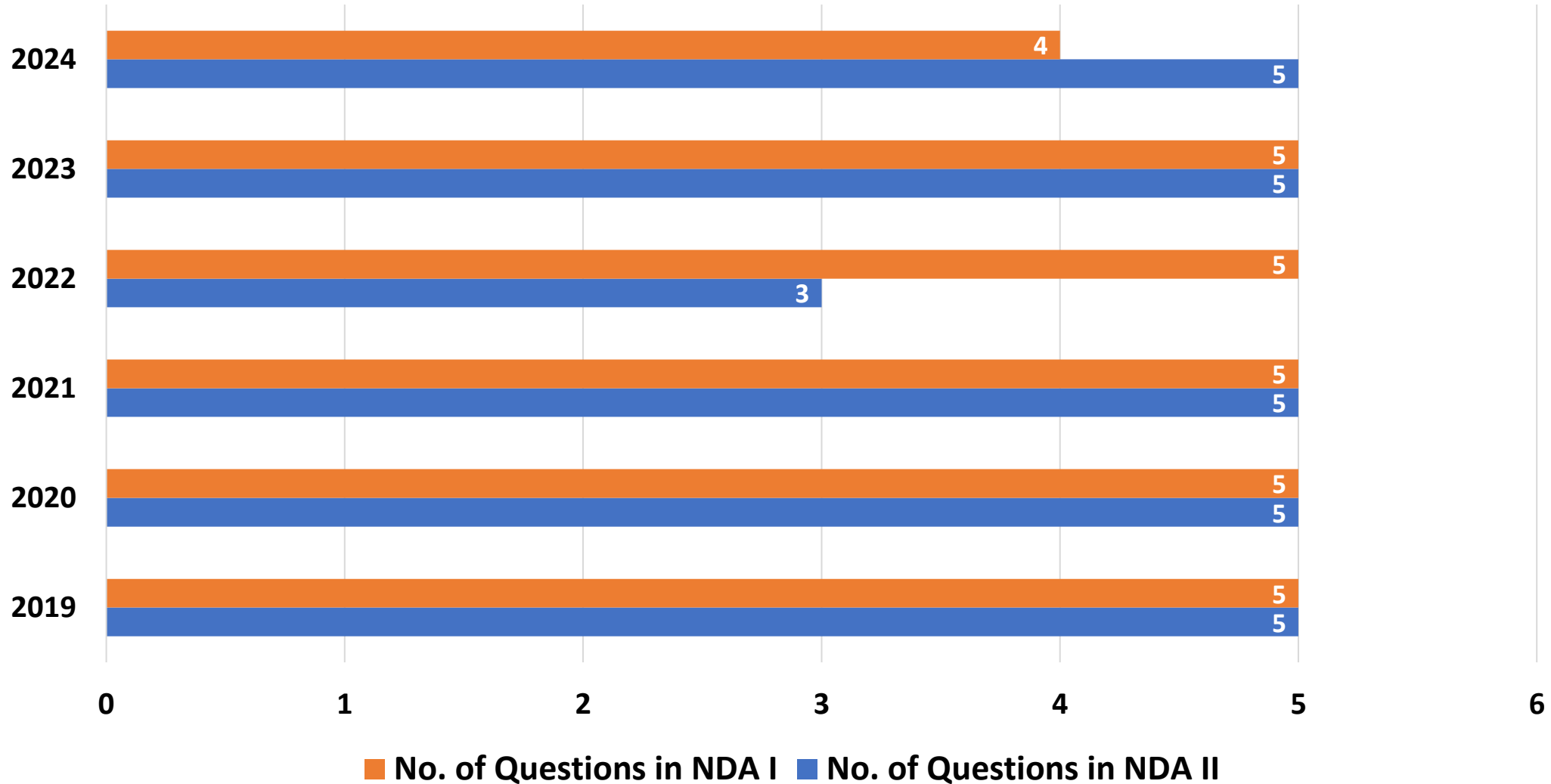
- Total no. of Questions & Marks
- No. of Vector Algebra Questions & Marks (Approx.)

Topic Importance: Vector Algebra

- Focus more on basic concepts and revise all the results.
- Practice good number of questions.

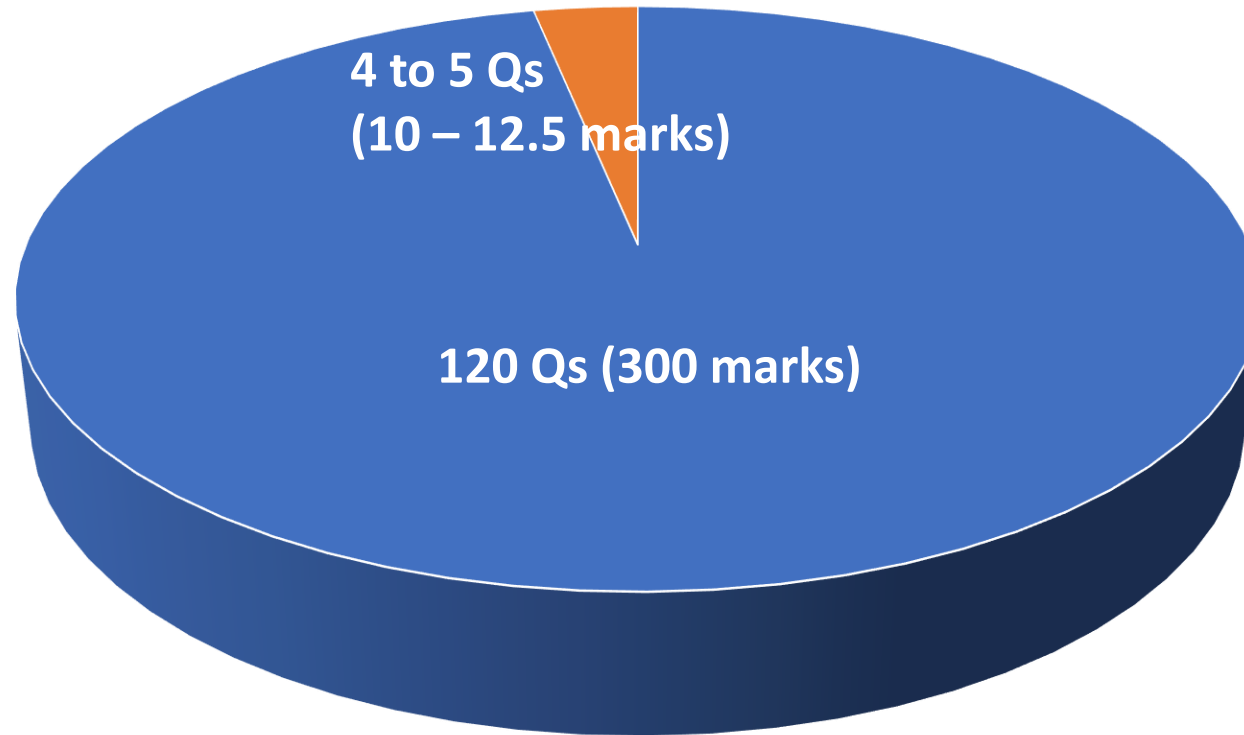
ANALYTICAL GEOMETRY 3D

NDA Previous Years Q&A Analysis



ANALYTICAL GEOMETRY 3D

Expected No. of Questions & Marks Division



■ Total no. of Questions & Marks

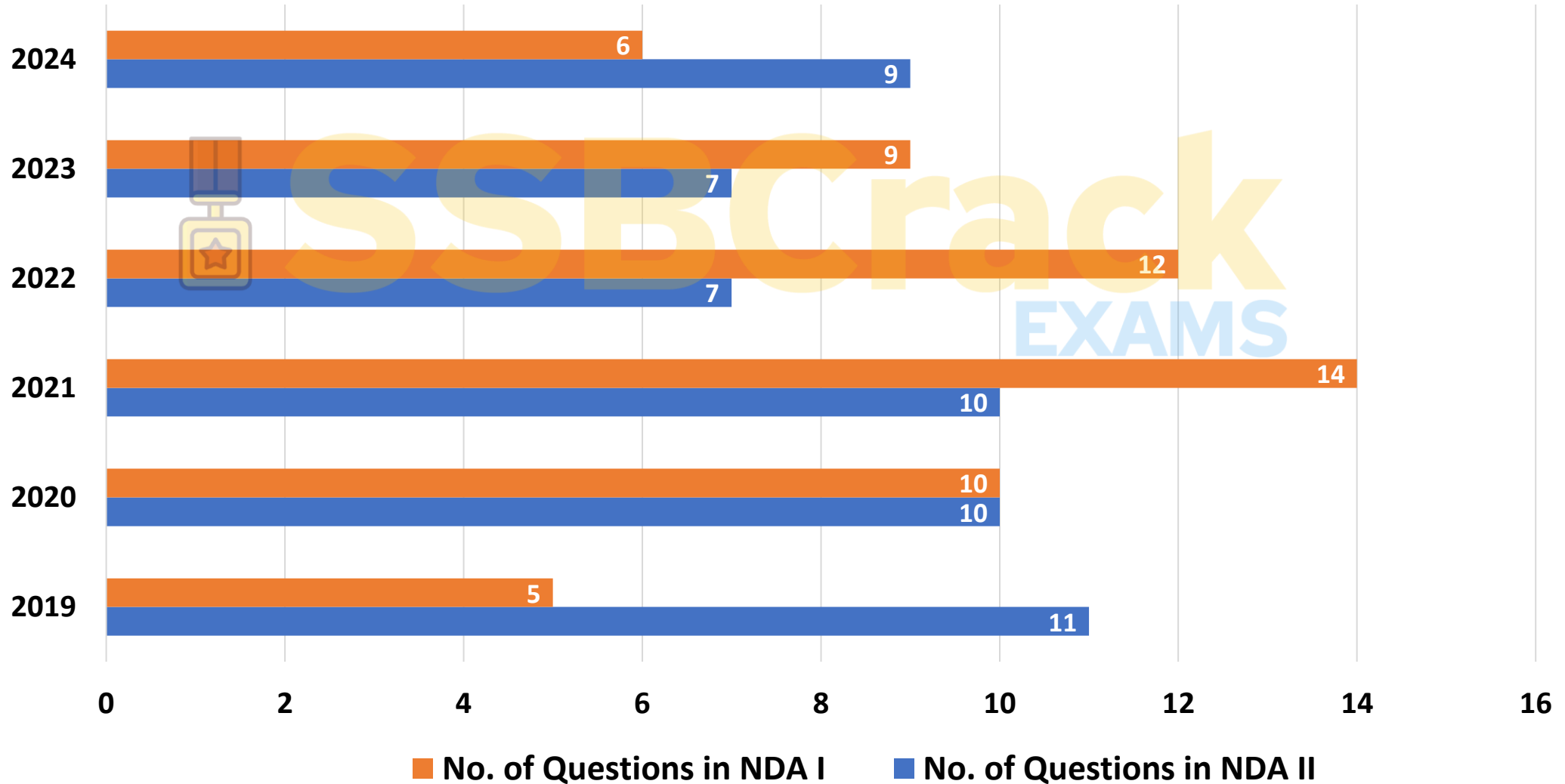
■ No. of 3D Geometry Questions & Marks (Approx.)

Topic Importance: Analytical Geometry 3D

- It consist of questions from 3D-Geometry, Line, Plane and Sphere.
- Focus more on equation of Line and Planes and Directions Ratios and Direction Cosines.
- Practice is the key.

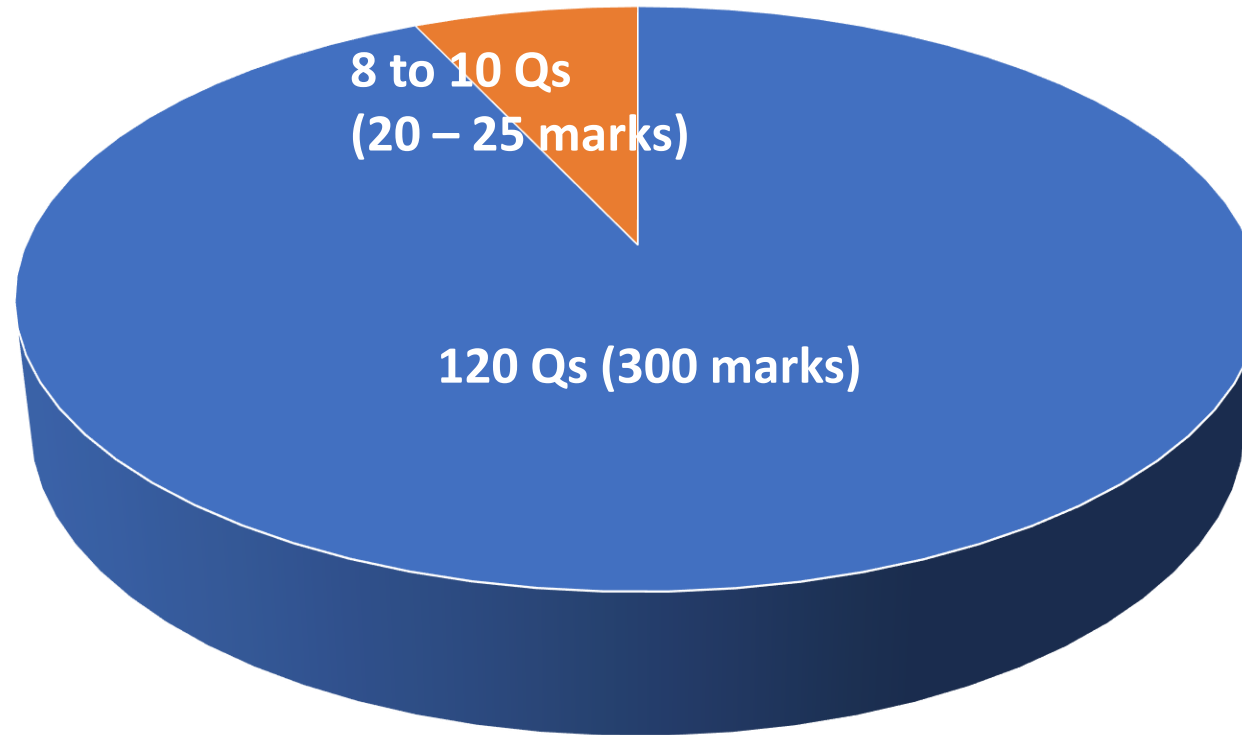
STATISTICS

NDA Previous Years Q&A Analysis



STATISTICS

Expected No. of Questions & Marks Division



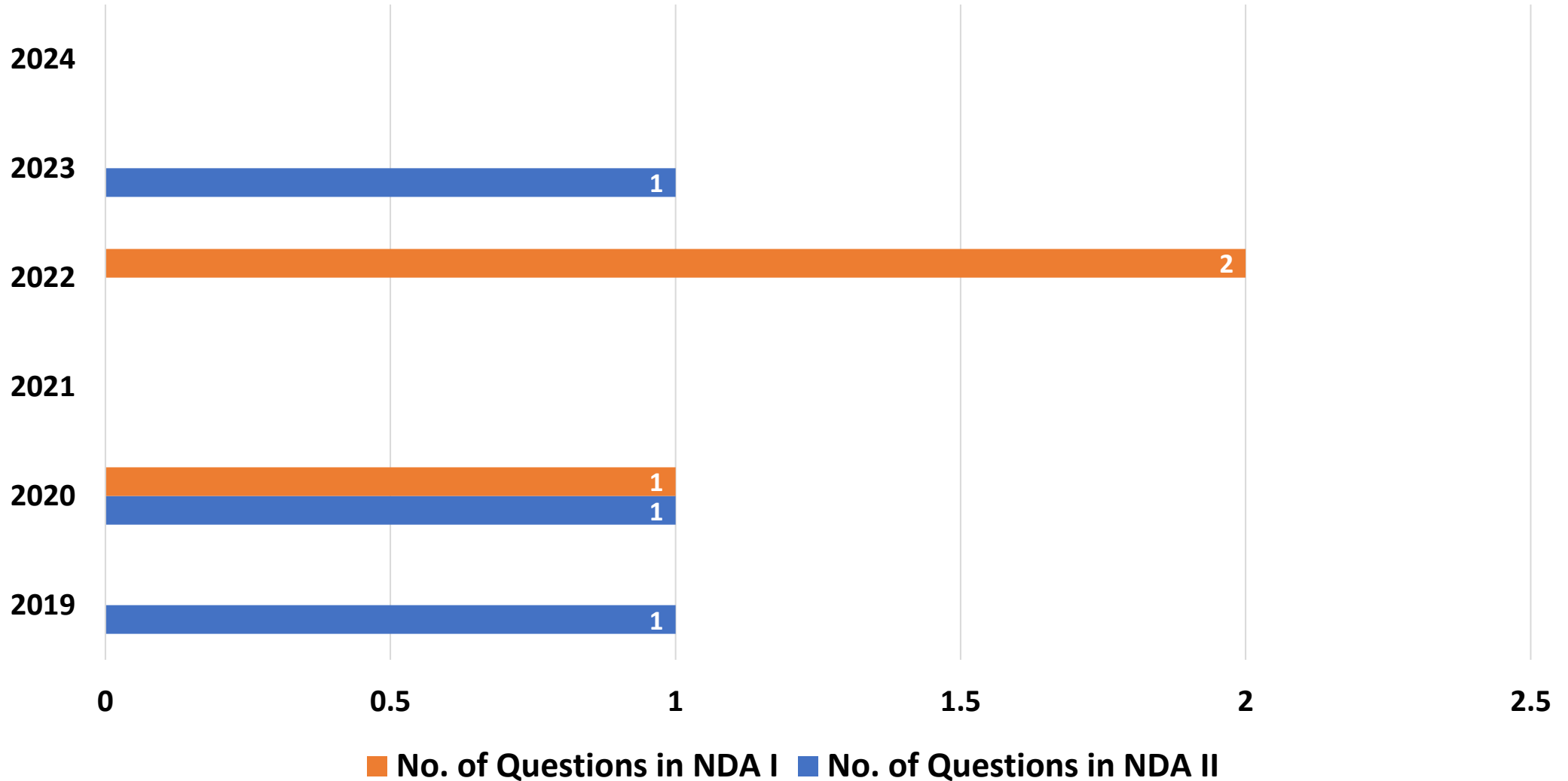
- Total no. of Questions & Marks
- No. of Statistics Questions & Marks (Approx.)

Topic Importance: Statistics

- This topic is mostly based on theoretical knowledge and formulas of mean, median, mode and their interpretation and also Standard Deviation, Variance and Co-Variance.
- One – two questions can also come on Correlation and Regression.
- Concepts of Sequence and Series can be helpful.
- Calculation should be very strong.
- Practice is the key to success.

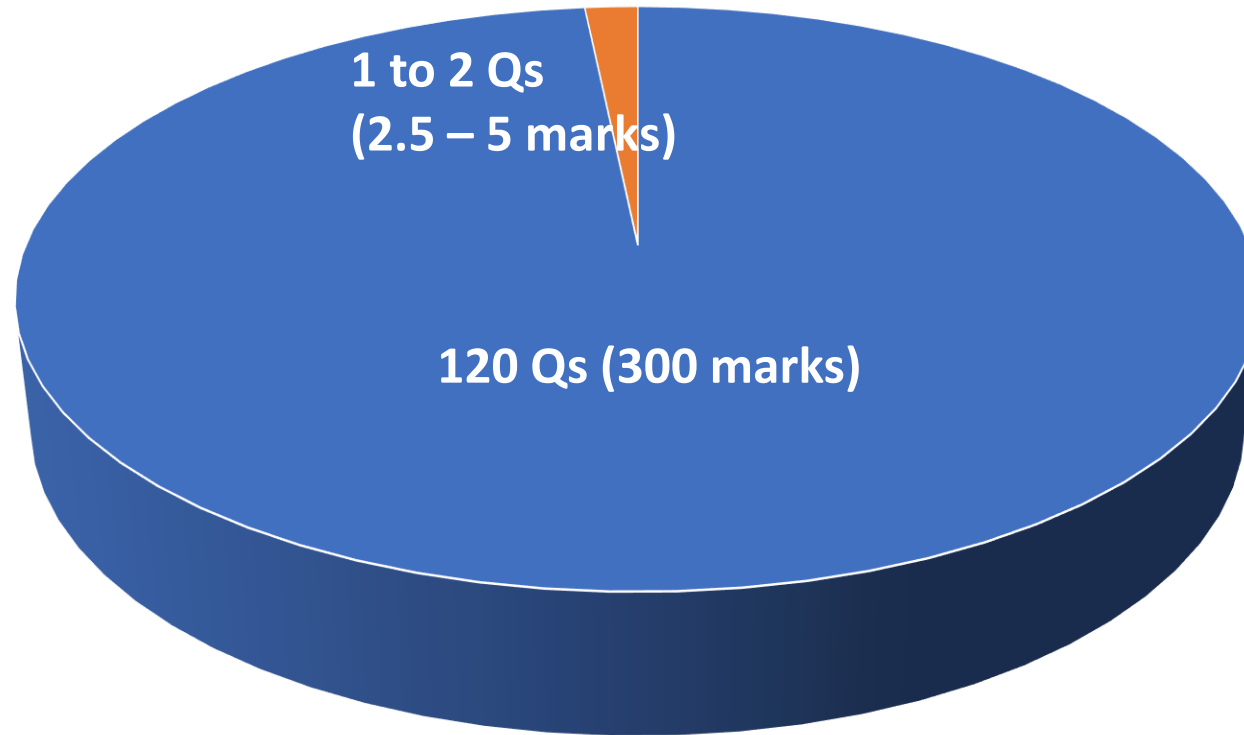
BINARY NUMBERS

NDA Previous Years Q&A Analysis



BINARY NUMBERS

Expected No. of Questions & Marks Division



- Total no. of Questions & Marks
- No. of Trigonometry Questions & Marks (Approx.)

Topic Importance: Binary Numbers

- Cover the conversion of binary system to decimal system and vice versa and practice some questions.

Expected Number of Questions in NDA 1 2025

TOPICS	EXPECTED NO. OF QUESTIONS
Trigonometry	18
Differential Calculus	11
Integral Calculus	12
Probability	12
Statistics	9
Matrices & Determinants	10
Analytical Geometry 2D	9
Sets, Relations & Functions	6
Vector Algebra	5

Expected Number of Questions in NDA 1 2025

TOPICS	EXPECTED NO. OF QUESTIONS
Sequence & Series	7
Analytical Geometry 3D	4
Complex Numbers	4
Quadratic Equations	5
Permutation And Combination	5
Binomial Theorem	3
Logarithms	1
Binary Numbers	1

NDA 1 2025 – Maths - Live Classes

TOPICS	NO. OF CLASSES
✓ QUADRATIC EQUATIONS ✓	— 2
✓ INEQUALITIES ✓	— 2
COMPLEX NUMBERS	3
LOGARITHMS	1
SETS, RELATIONS & FUNCTIONS	4
TRIGONOMETRY	6
ANALYTICAL GEOMETRY 2D	5
ANALYTICAL GEOMETRY 3D	3
VECTOR ALGEBRA	3
PERMUTATION & COMBINATION	3

4 - 5 PM
(Mon - Fri)
~~~~~

# NDA 1 2025 – Maths - Live Classes

| TOPICS                              | NO. OF CLASSES |
|-------------------------------------|----------------|
| BINOMIAL THEOREM                    | 2              |
| SEQUENCE & SERIES                   | 4              |
| MATRICES & DETERMINANT              | 4              |
| LIMITS AND CONTINUITY               | 4              |
| DIFFERENTIABILITY & DIFFERENTIATION | 4              |
| AOD                                 | 4              |
| INTEGRATION                         | 6              |
| DIFFERENTIAL EQUATION               | 4              |
| PROBABILITY                         | 6              |
| STATISTICS                          | 5              |
| BINARY NUMBERS                      | 1              |

# Tips to Remember

- Please keep a printout of this Study Plan & try to follow the schedule as strictly as possible
- Always practice Math problems. By practice we mean take a pen and paper and solve Math problems. ✓
- Theorems and formulae are the most important features in Mathematics. To memorize them, write them three to four times. ✓
- Solve as many Previous years papers as possible you can and that too in a time-bound fashion. This will help you to manage your time during the exams. (5 years)  
(10 papers)
- Take NDA Mathematics Mock Tests without fail.
- Don't forget to chill out and relax!

\* Doubts

→ Discussion box. (active)

\* Timely Revision,

→ depth ✓  
Range x

# NDA 1 2025

LIVE

# MATHS

## QUADRATIC EQUATIONS

CLASS 1

NAVJYOTI SIR

SSBCrack  
CLAMS

Crack  
EXAMS