

NDA 2 2024

LIVE

MATHS

STUDY PLANS

ANALYSIS



NAVJYOTI SIR

Crack
EXAMS



13 May 2024 Live Classes Schedule

| | | | |
|-----------------------------------|-----------------------------------|----------------|---|
| 8:00AM | 13 MAY 2024 DAILY CURRENT AFFAIRS | RUBY MA'AM | ✓ |
| 9:00AM | 13 MAY 2024 DAILY DEFENCE UPDATES | DIVYANSHU SIR | ✓ |
| SSB INTERVIEW LIVE CLASSES | | | |
| 9:00AM | OVERVIEW OF SRT & SDT | ANURADHA MA'AM | ✓ |
| AFCAT 2 2024 LIVE CLASSES | | | |
| 10:00AM | REASONING - STUDY PLAN & ANALYSIS | RUBY MA'AM | ✓ |
| 11:30AM | MATHS - STUDY PLAN & ANALYSIS | NAVJYOTI SIR | ✓ |
| 1:00PM | ENGLISH - STUDY PLAN & ANALYSIS | ANURADHA MA'AM | ✓ |
| 2:30PM | STATIC GK - STUDY PLAN & ANALYSIS | DIVYANSHU SIR | ✓ |
| NDA 2 2024 LIVE CLASSES | | | |
| 10:00PM | MATHS - STUDY PLAN & ANALYSIS | NAVJYOTI SIR | ✓ |
| 11:30PM | GK - STUDY PLAN & ANALYSIS | RUBY MA'AM | |
| 2:00PM | ENGLISH - STUDY PLAN & ANALYSIS | ANURADHA MA'AM | |
| CDS 2 2024 LIVE CLASSES | | | |
| 3:30PM | GK - STUDY PLAN & ANALYSIS | RUBY MA'AM | |
| 5:00PM | ENGLISH - STUDY PLAN & ANALYSIS | ANURADHA MA'AM | |
| 6:30PM | MATHS - STUDY PLAN & ANALYSIS | NAVJYOTI SIR | |



All About NDA 2 2024 Exam

Union Public Service Commission (UPSC) will publish NDA 2 2024 exam official notification in May 2024 for admission of unmarried males/ females to the Army, Navy and Air Force wings of the **NDA for the 154th Course** and for the **116th Indian Naval Academy Course (INAC)** commencing from July 2025.



NDA 2 2024 Important Dates to Remember

| No. | Important Events | Dates |
|-----|---|-------------------------------------|
| 1. | Notification Release Date | 15 May 2024 |
| 2. | Starting date for Submission of Application | 15 May 2024 |
| 3. | Last date for Submission of Application | 04 June 2024 |
| 4. | Release of Admit Card | 2 Weeks Before Exam |
| 5. | Date of the Examination | 01 September 2024 (SUNDAY) ✓ |
| 6. | Declaration of Results | Oct – Nov 2024 ✓ |

NDA 2 2024 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 2 2024 Selection Procedure



NDA 2 2024 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 ✓ | 200 ✓ | 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 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 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% |

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 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 2 2024 Exam

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

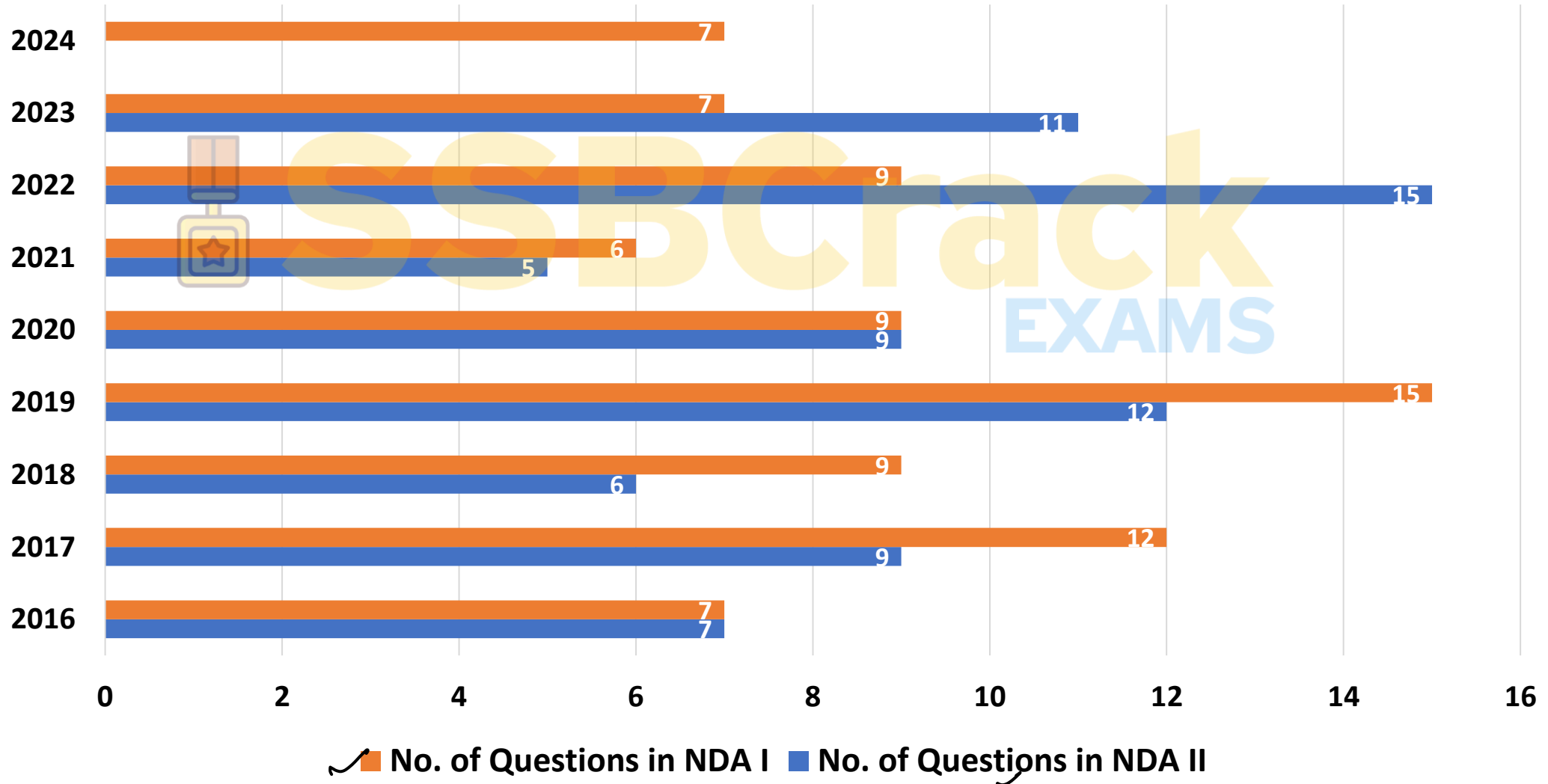
| SUBJECT | TOTAL MARKS | CUT-OFF MARKS | CUT-OFF PERCENTAGE |
|---|--------------|--------------------------|--------------------|
| Mathematics | 300 | 75 // | 25% ✓ |
| General Ability Test | 600 | 150 // | 25% ✓ |
| Total Marks | 900 | 225 // | 25% |
| Expected Last Recommended Candidate (Written)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

NDA 1 2024 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

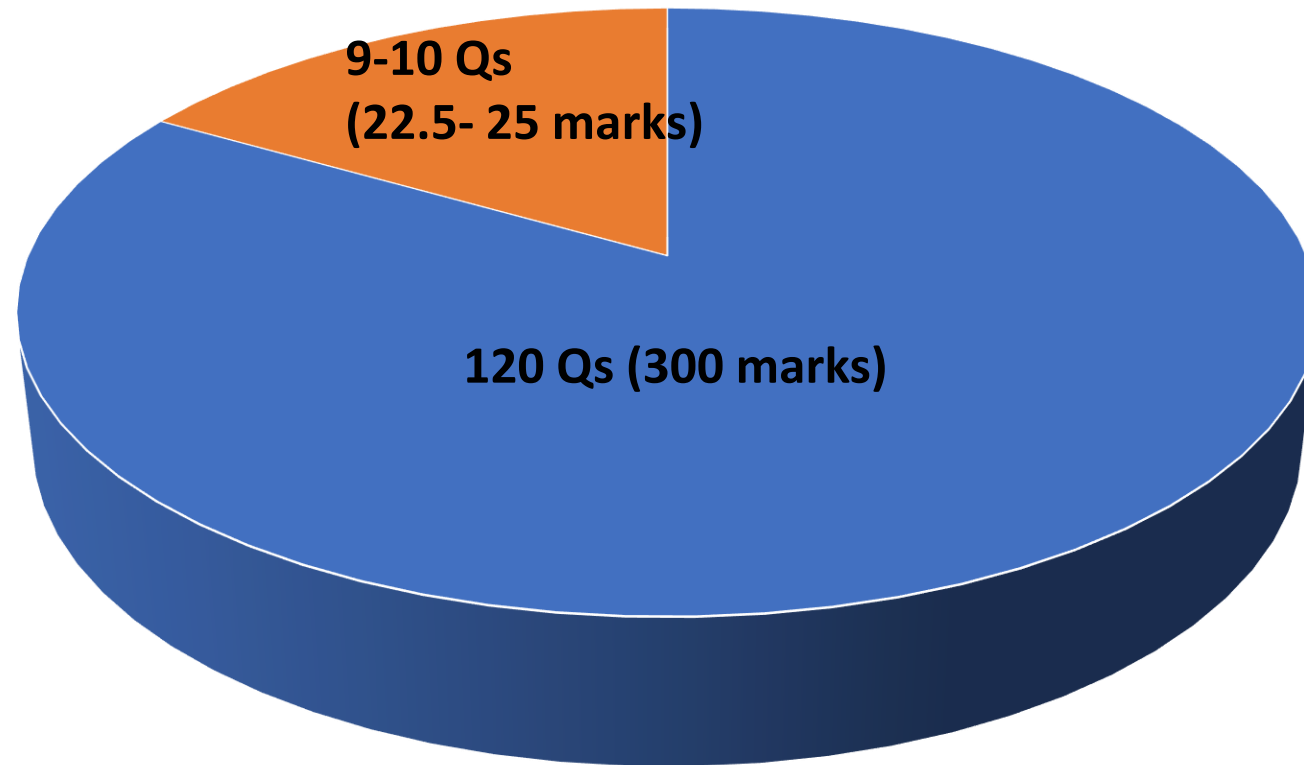
SETS, RELATIONS & FUNCTIONS

NDA Previous Years Q&A Analysis



Sets, Relations and Functions

Expected No. of Questions & Marks Division



■ Total no. of Questions & Marks

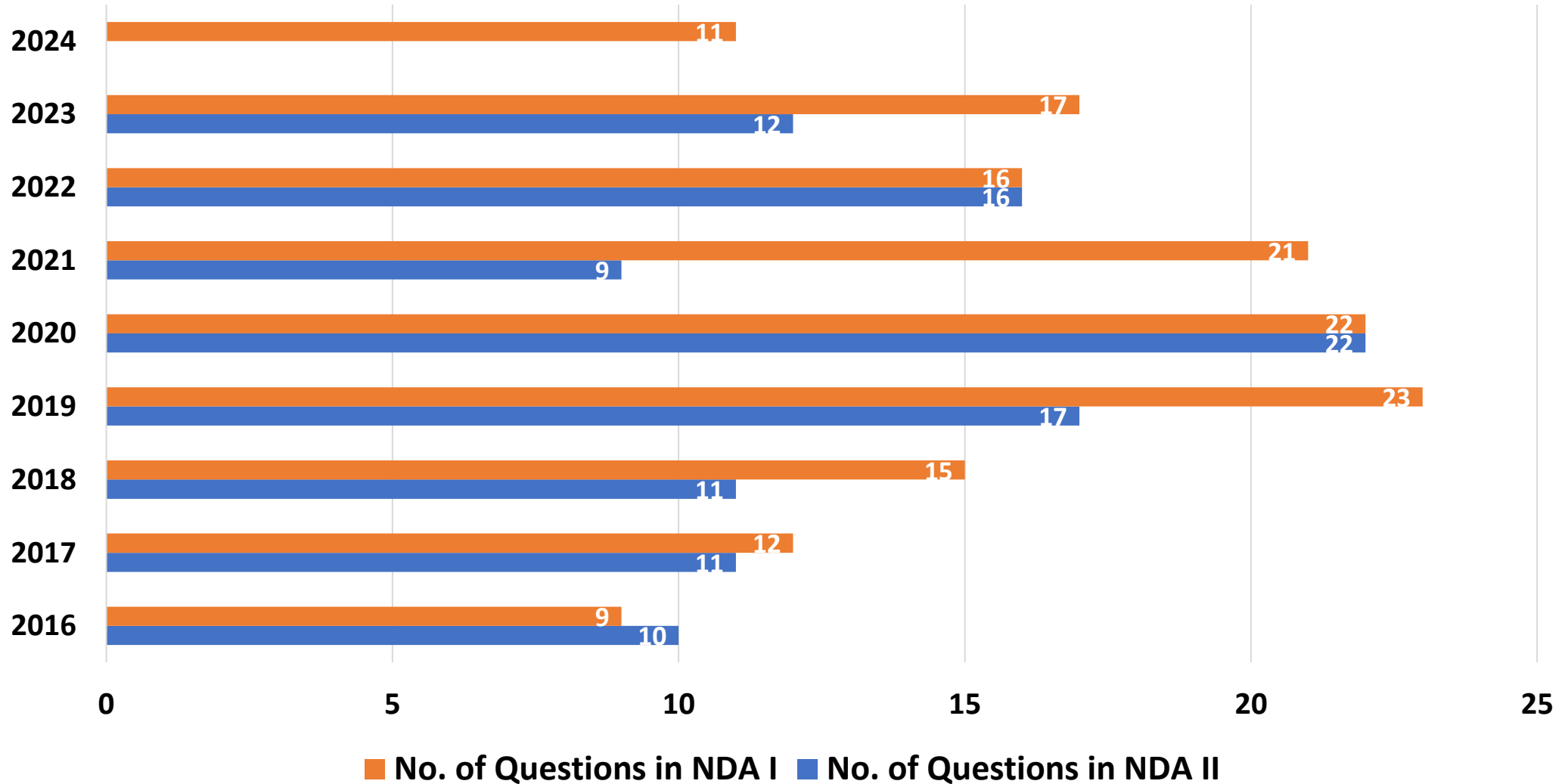
■ No. of Sets, Relations and Functions Questions & Marks

Topic Importance: Sets, Relations & Functions

- 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.

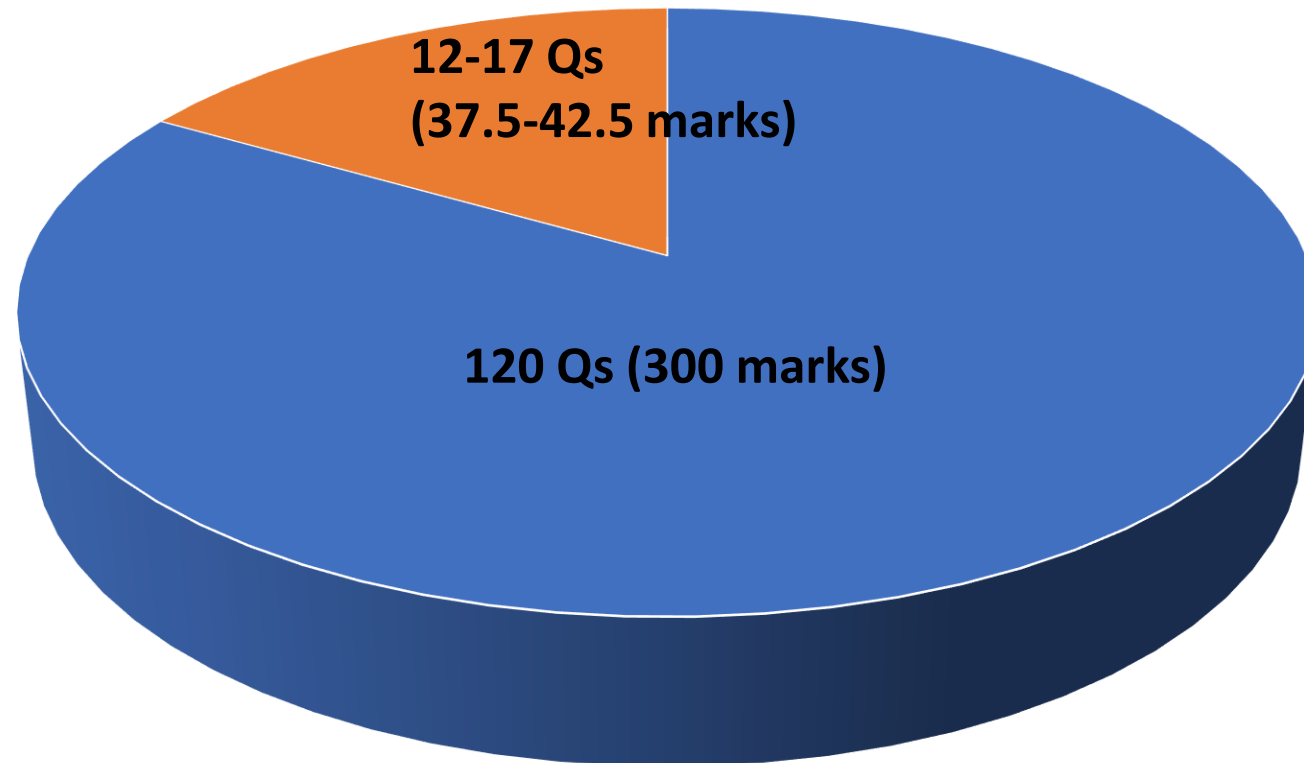
TRIGONOMETRY

NDA Previous Years Q&A Analysis



Trigonometry

Expected No. of Questions & Marks Division



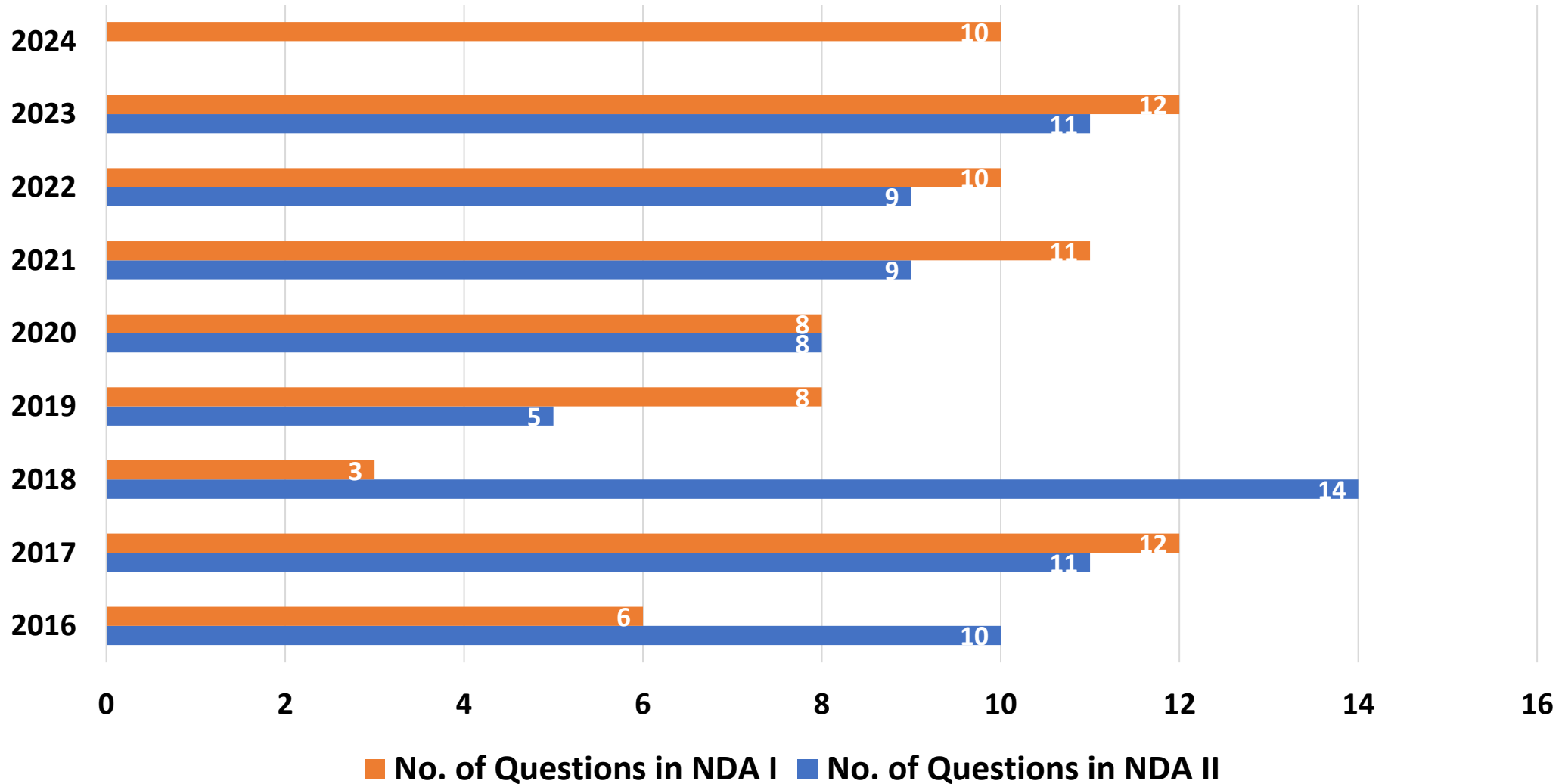
■ Total no. of Questions & Marks ■ No. of Trigonometry Questions & Marks

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.

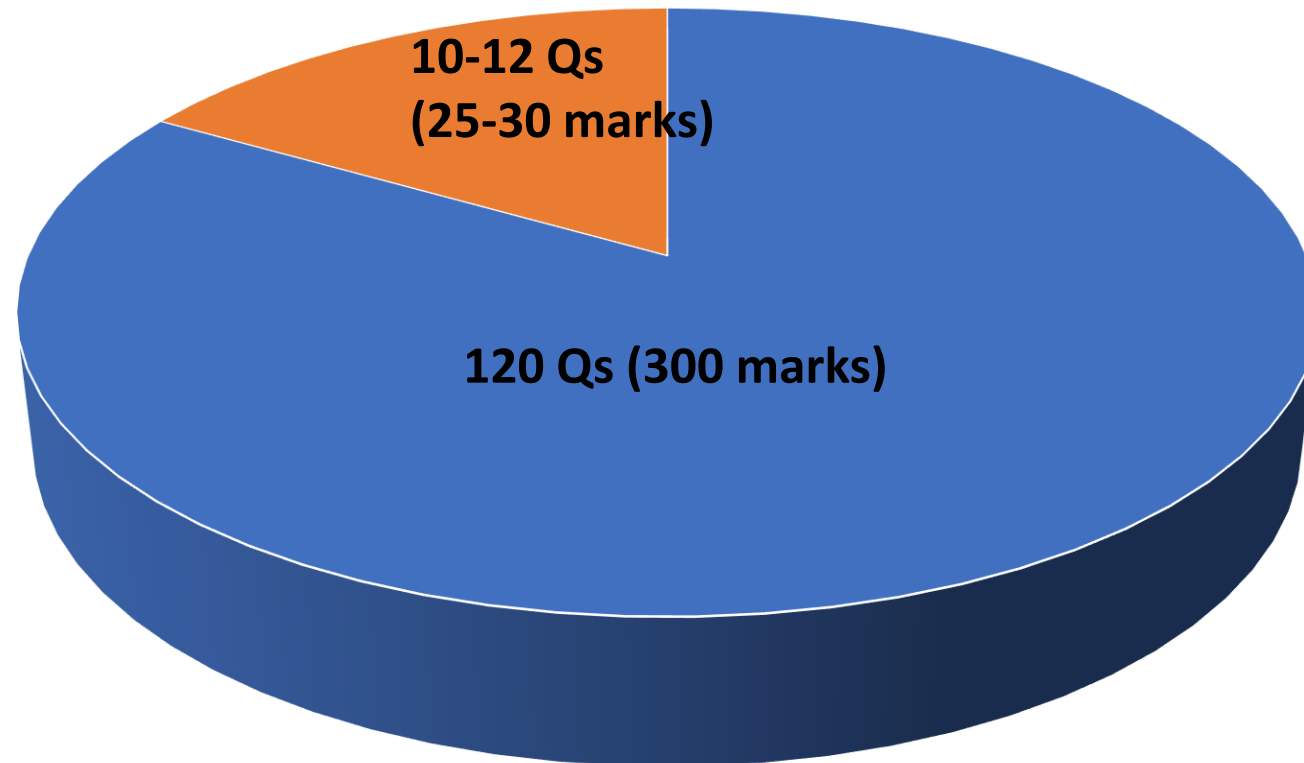
MATRICES & DETERMINANTS

NDA Previous Years Q&A Analysis



Matrices & Determinant

Expected No. of Questions & Marks Division



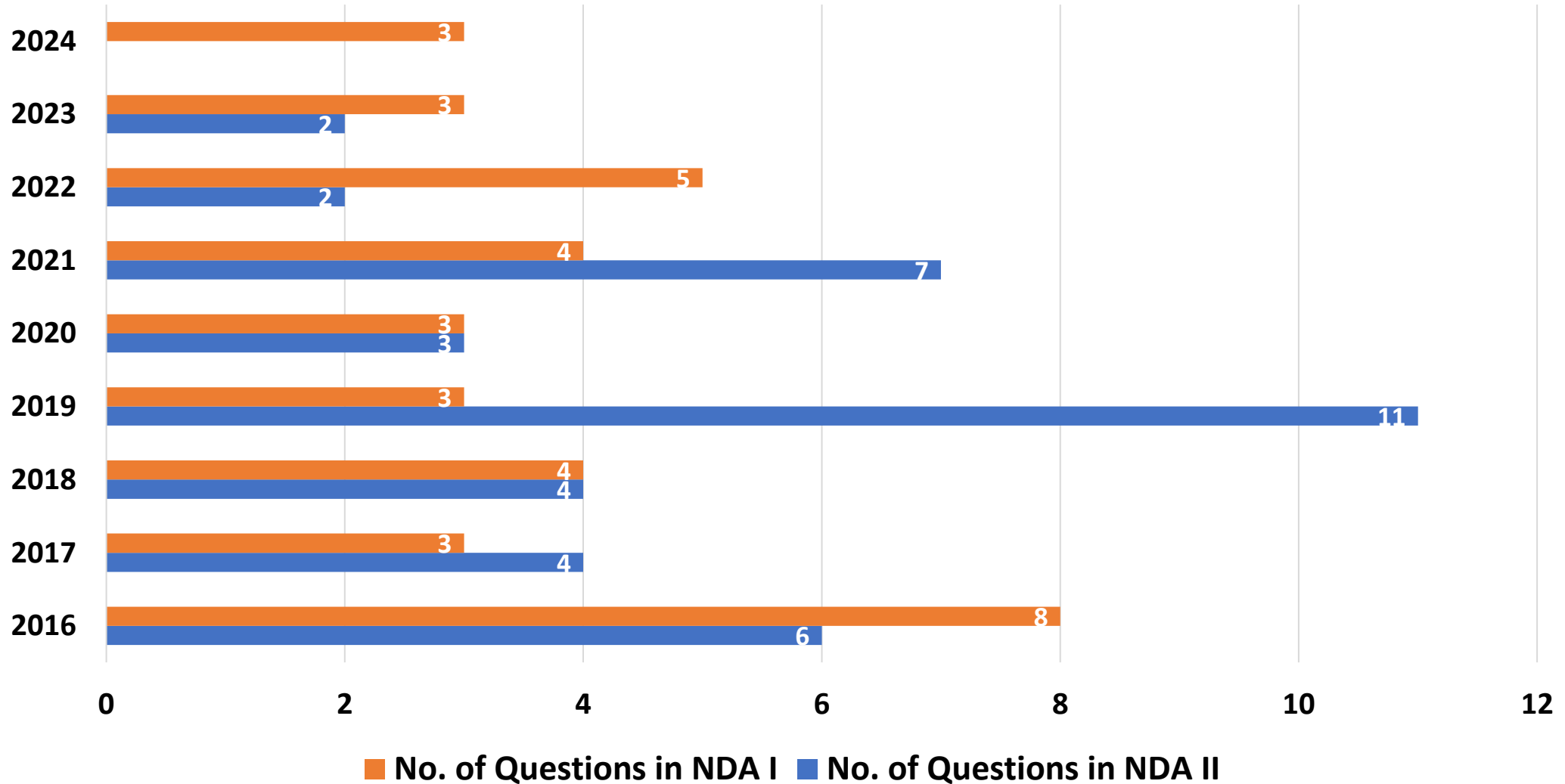
- Total no. of Questions & Marks
- No. of Matrices & Determinants Questions & Marks

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.

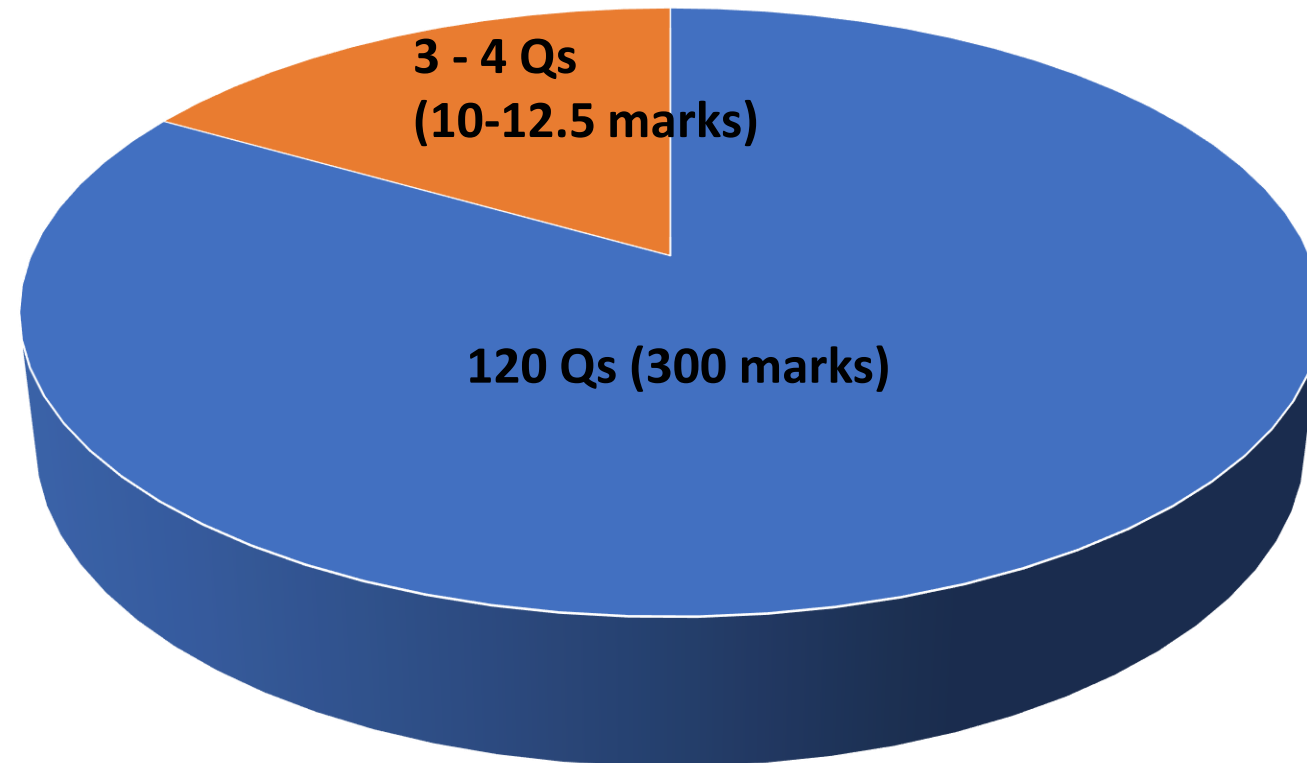
QUADRATIC EQUATIONS & INEQUALITIES

NDA Previous Years Q&A Analysis



Quadratic Equations

Expected No. of Questions & Marks Division



- Total no. of Questions & Marks
- No. of Spotting of Errors Questions & Marks

Topic Importance: Quadratic Equations & Inequalities

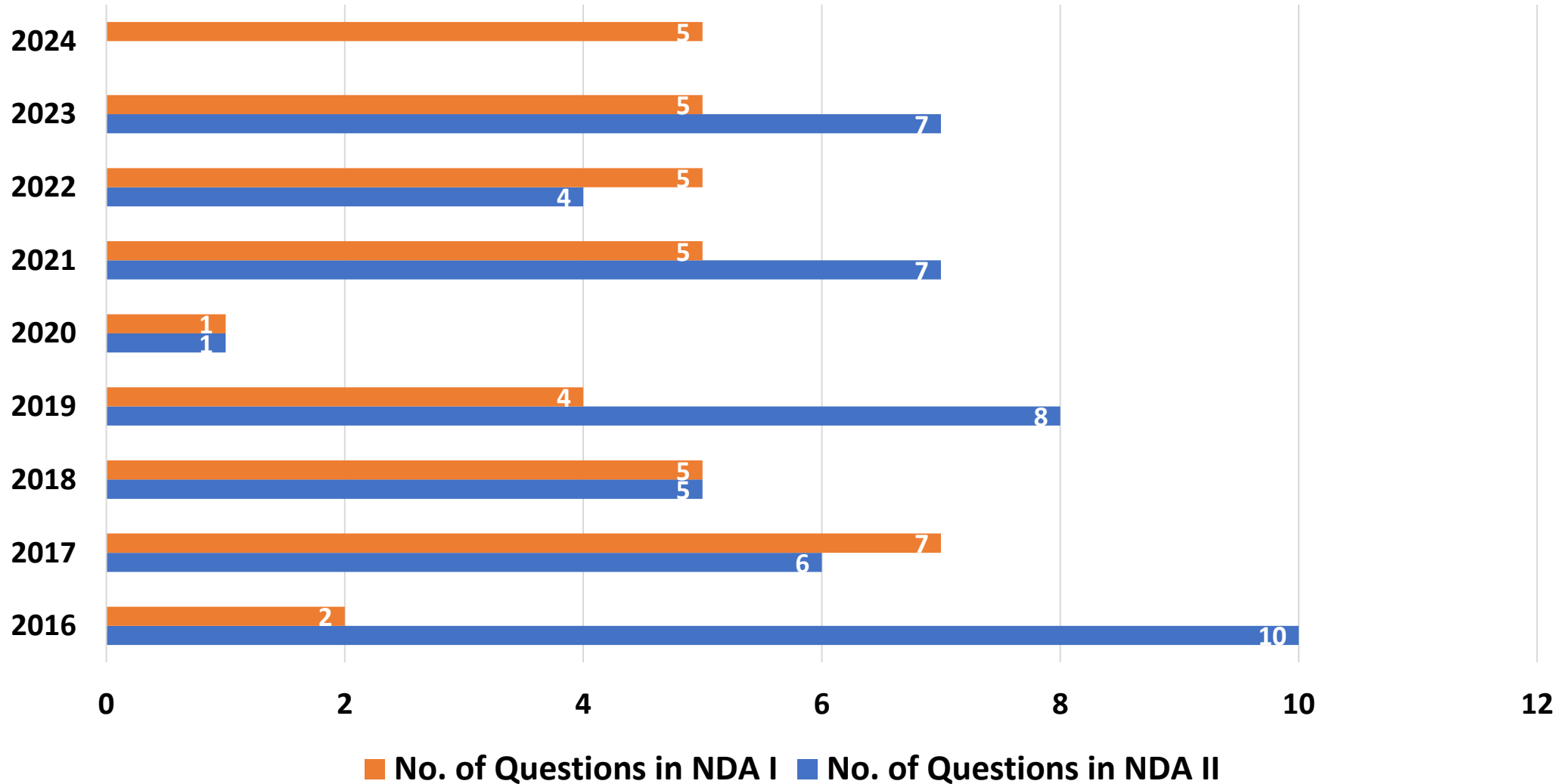
- Very Basic but very useful in other topics also.
- Should know the methods of solving the equations and inequations.
- Practice good number of questions.



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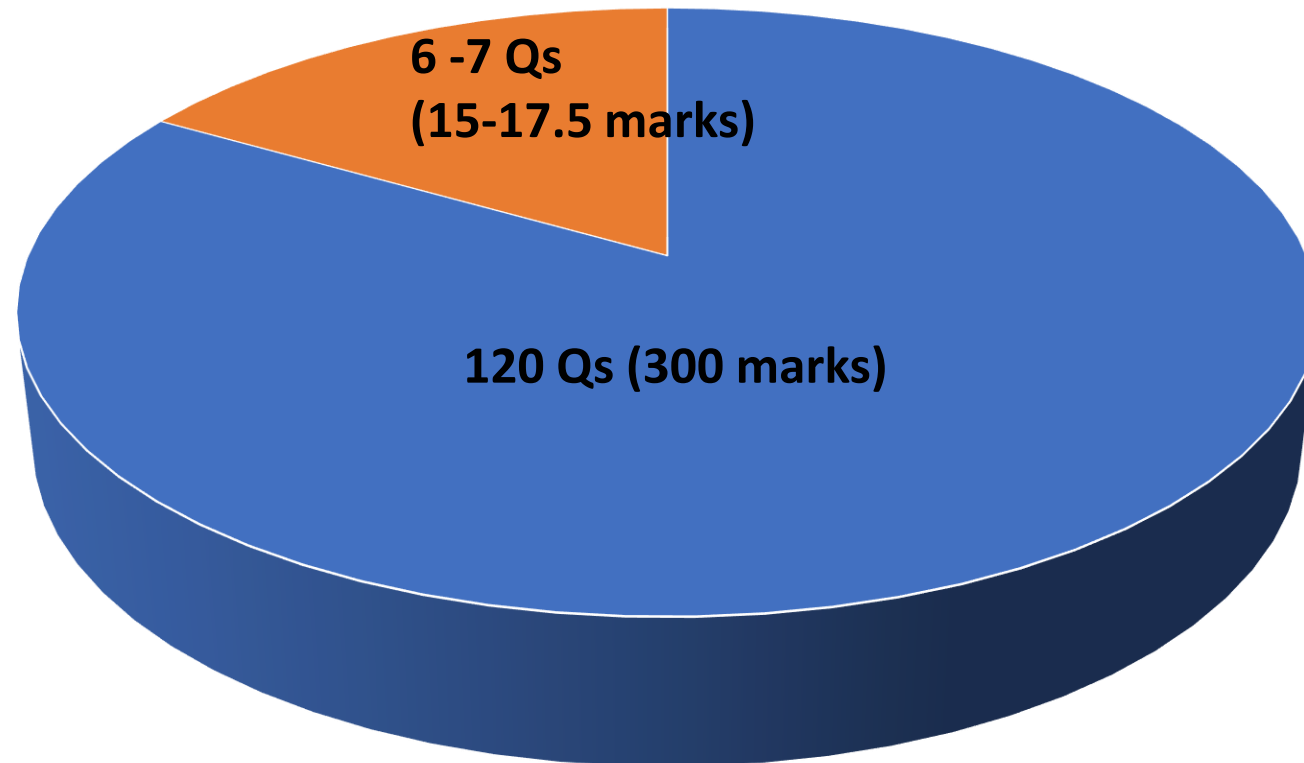
SEQUENCE & SERIES

NDA Previous Years Q&A Analysis



Sequence & Series

Expected No. of Questions & Marks Division



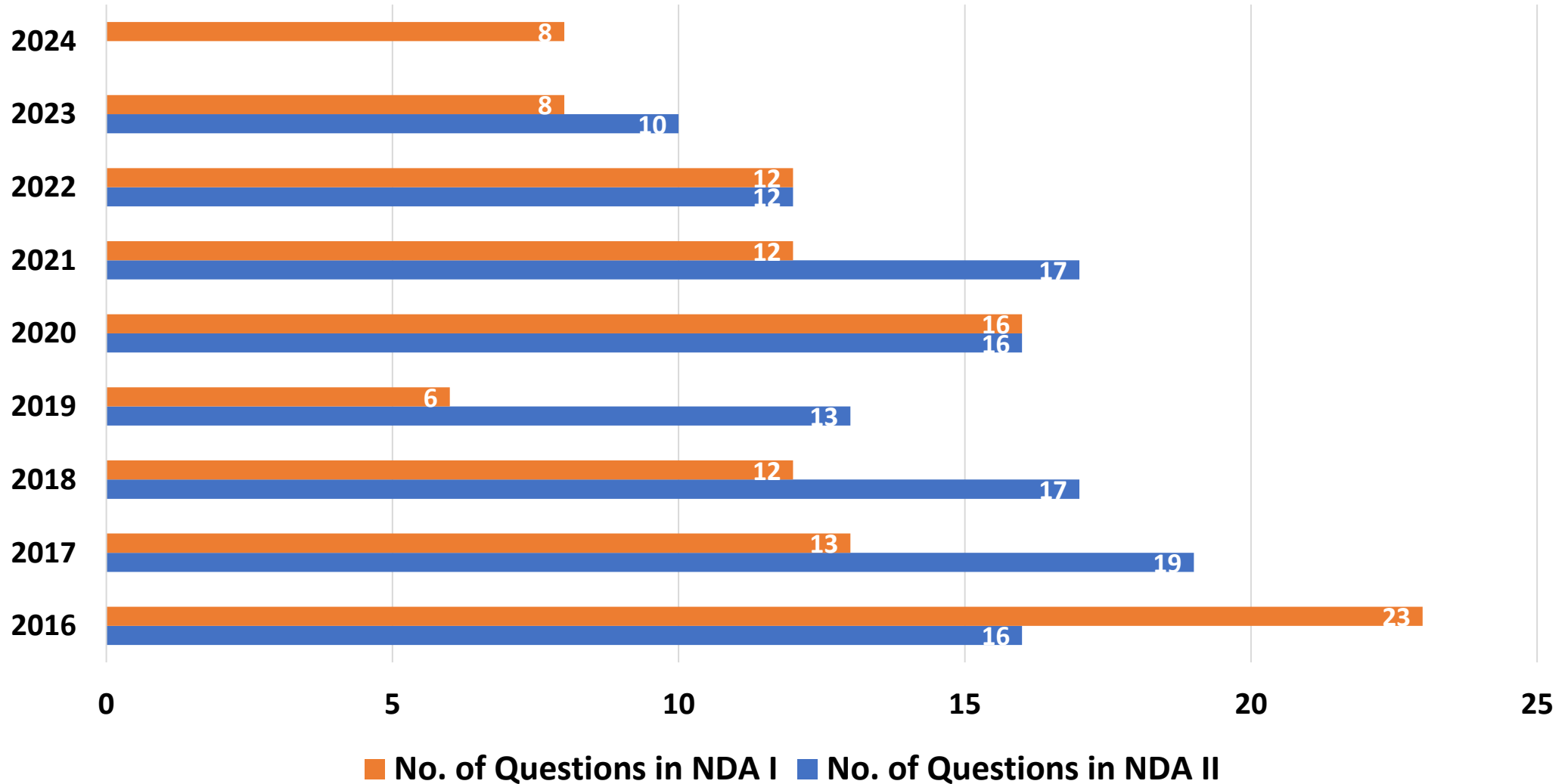
- Total no. of Questions & Marks
- No. of Sequence and Series Questions & Marks

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.

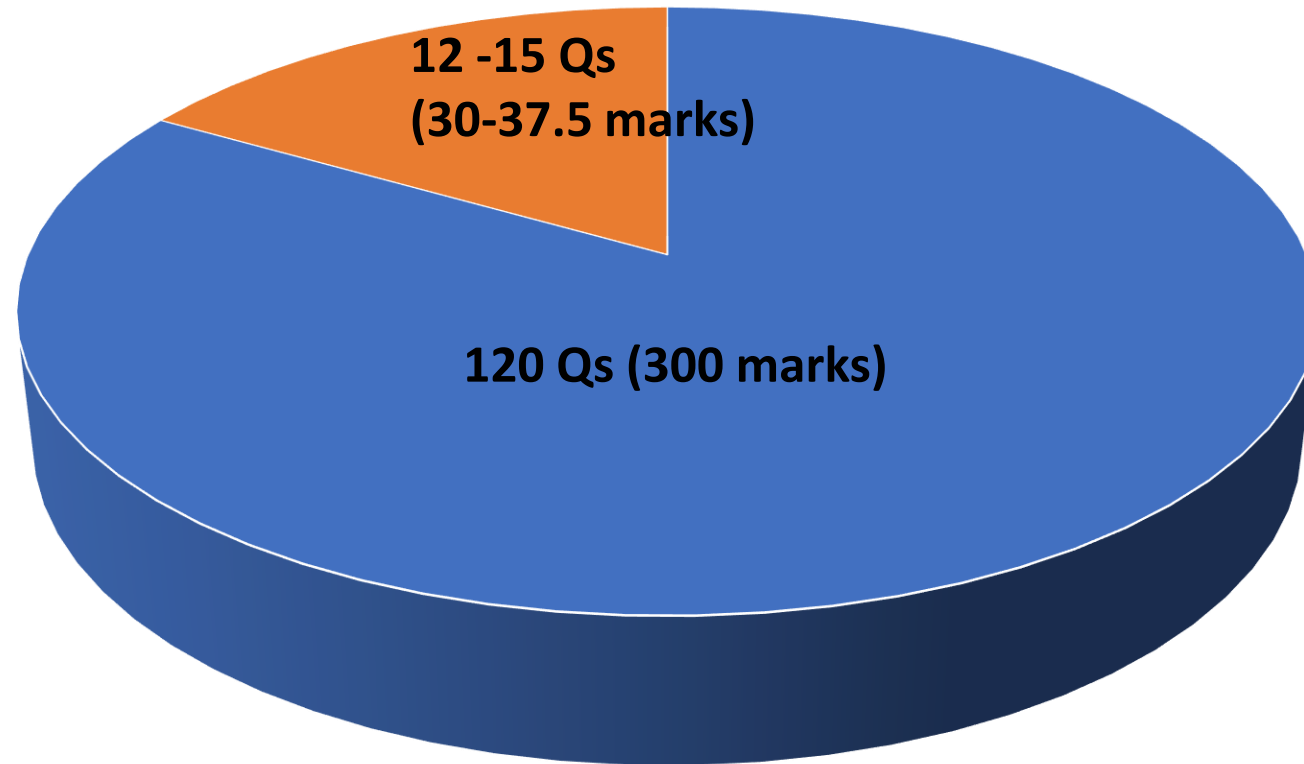
DIFFERENTIAL CALCULUS

NDA Previous Years Q&A Analysis



Differential Calculus

Expected No. of Questions & Marks Division



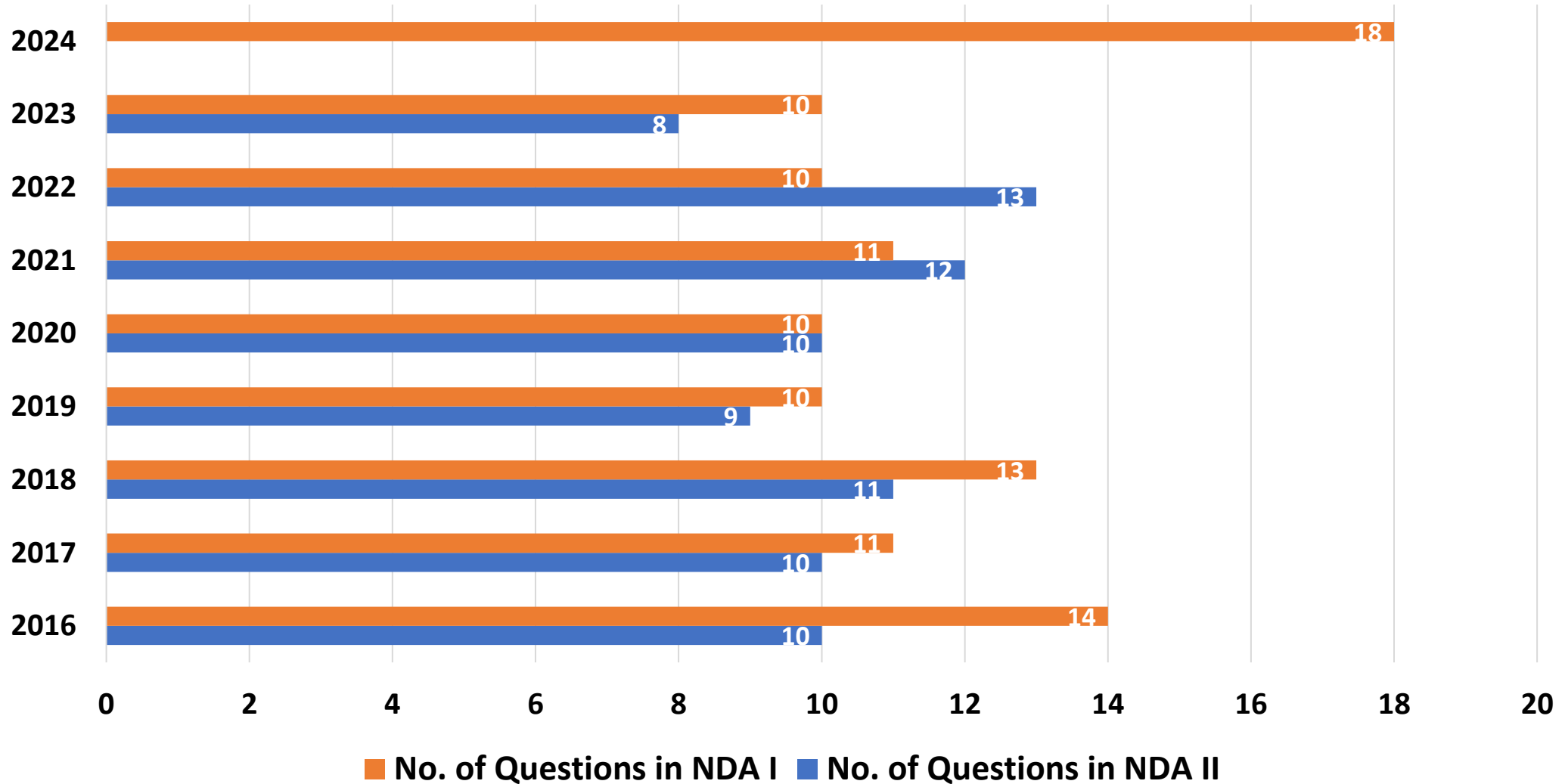
- Total no. of Questions & Marks
- No. of Differential Calculus Questions & Marks

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.
- AOD also contains very good number of questions, focus more on maxima – minima and increasing decreasing concepts.
- Make a formulas sheet and revise it multiple times.
- Practice is the key to success.

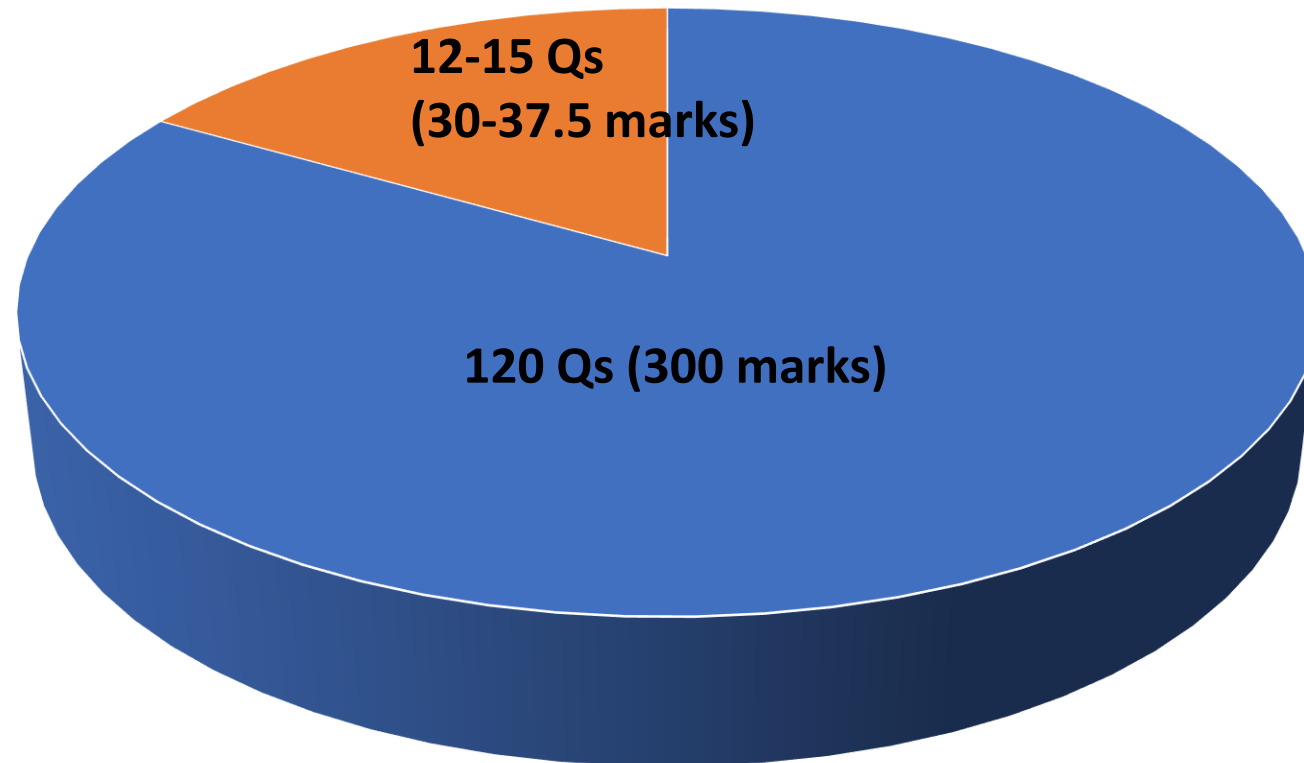
INTEGRAL CALCULUS

NDA Previous Years Q&A Analysis



Integral Calculus

Expected No. of Questions & Marks Division



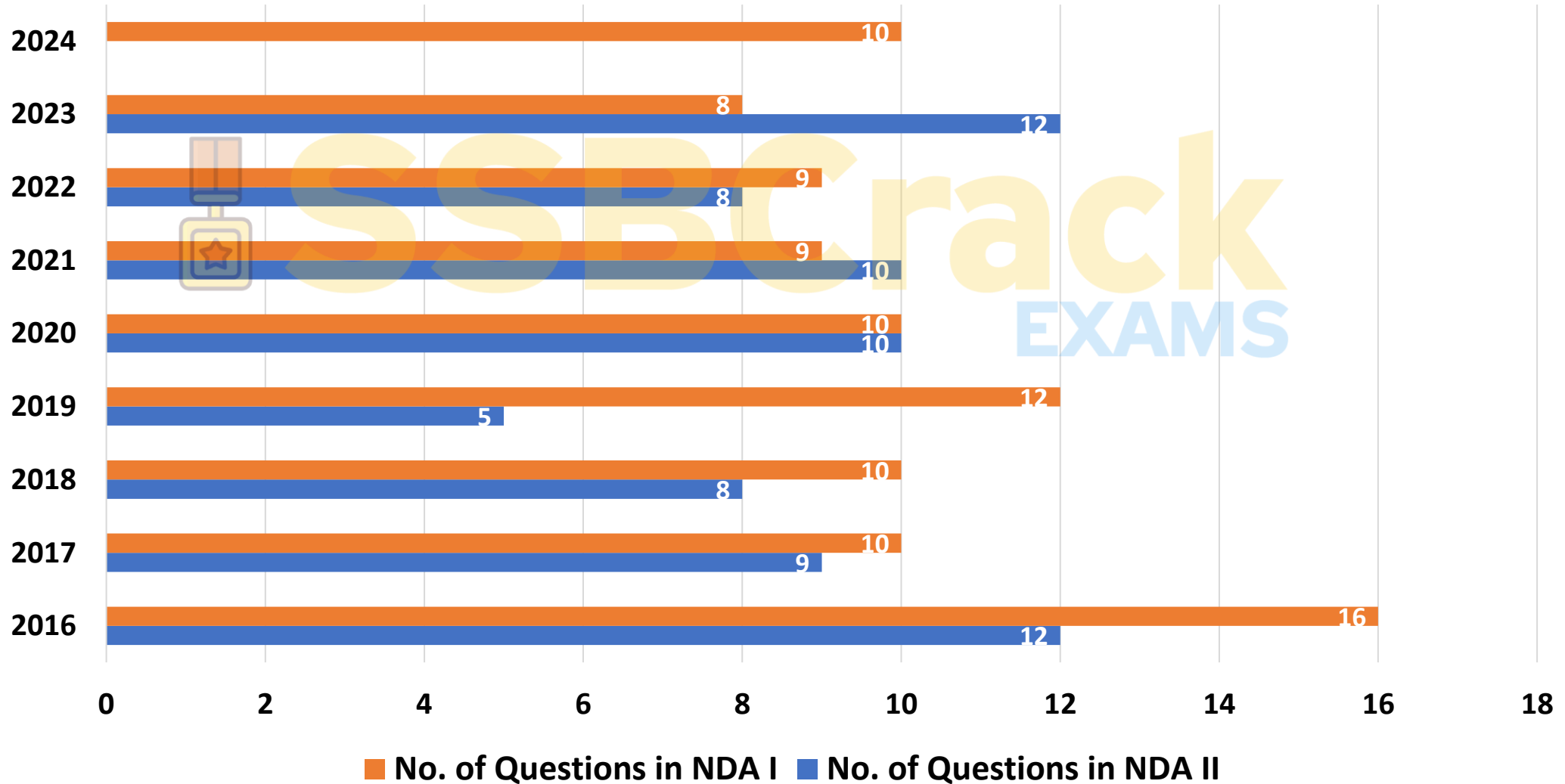
- Total no. of Questions & Marks
- No. of Integral Calculus Questions & Marks

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 definite integration.
- Differential Equations contains maximum questions.
- Make a formulas sheet and revise it multiple times.
- Practice good number of questions.

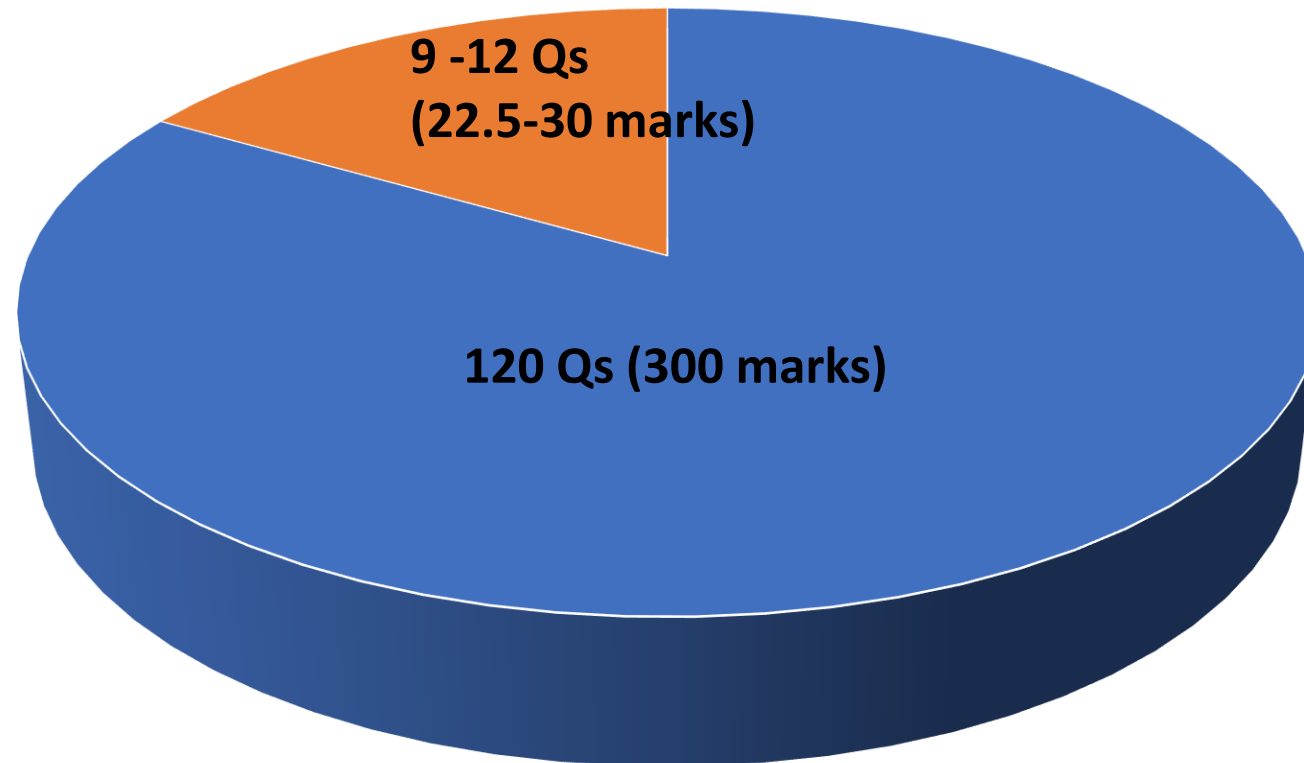
ANALYTICAL GEOMETRY 2D

NDA Previous Years Q&A Analysis



Analytical Geometry 2D

Expected No. of Questions & Marks Division



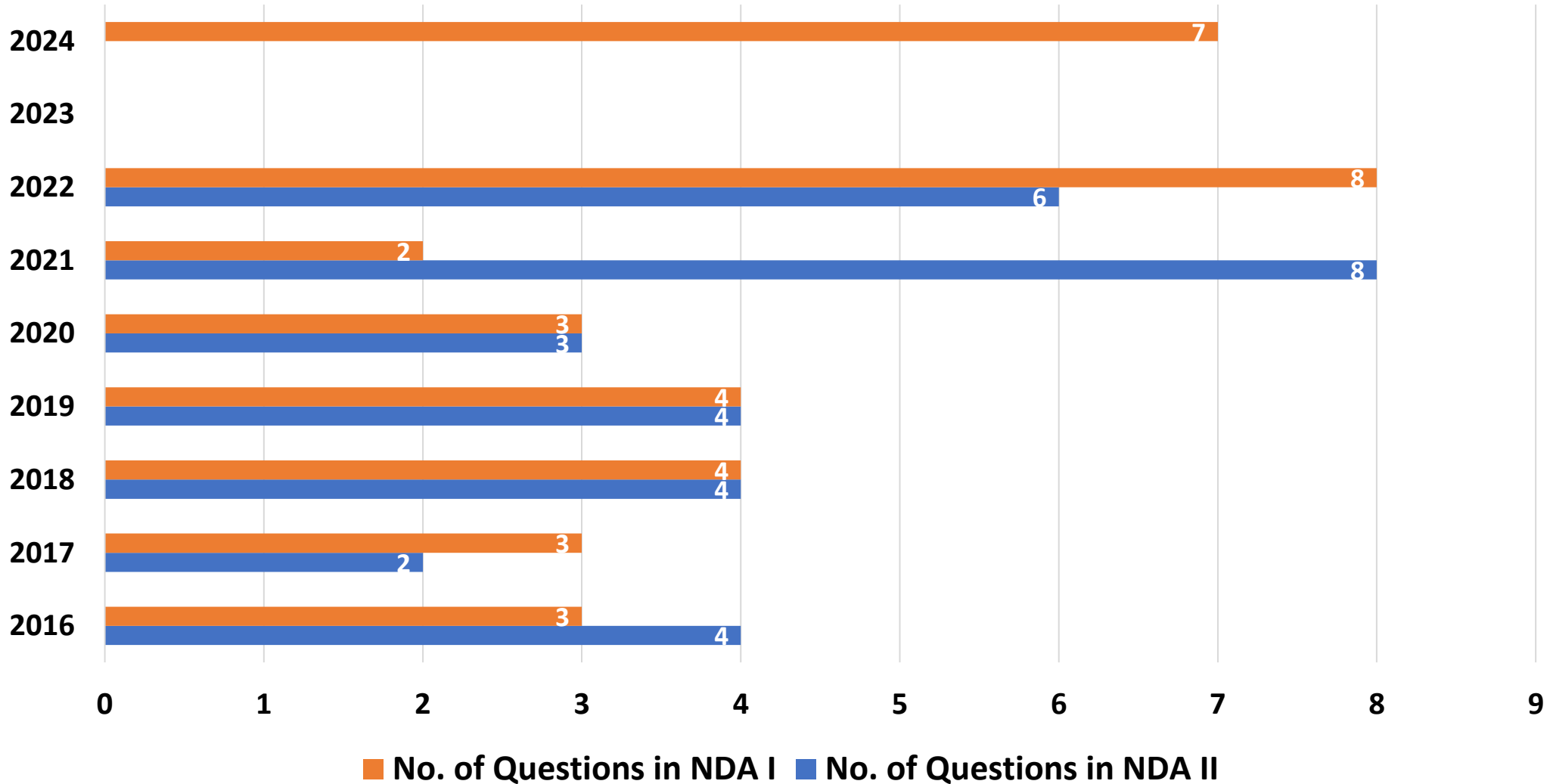
■ Total no. of Questions & Marks ■ No. of 2D Geometry Questions & Marks

Topic Importance: Analytical Geometry 2D

- This topic consists of questions Coordinate on 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.

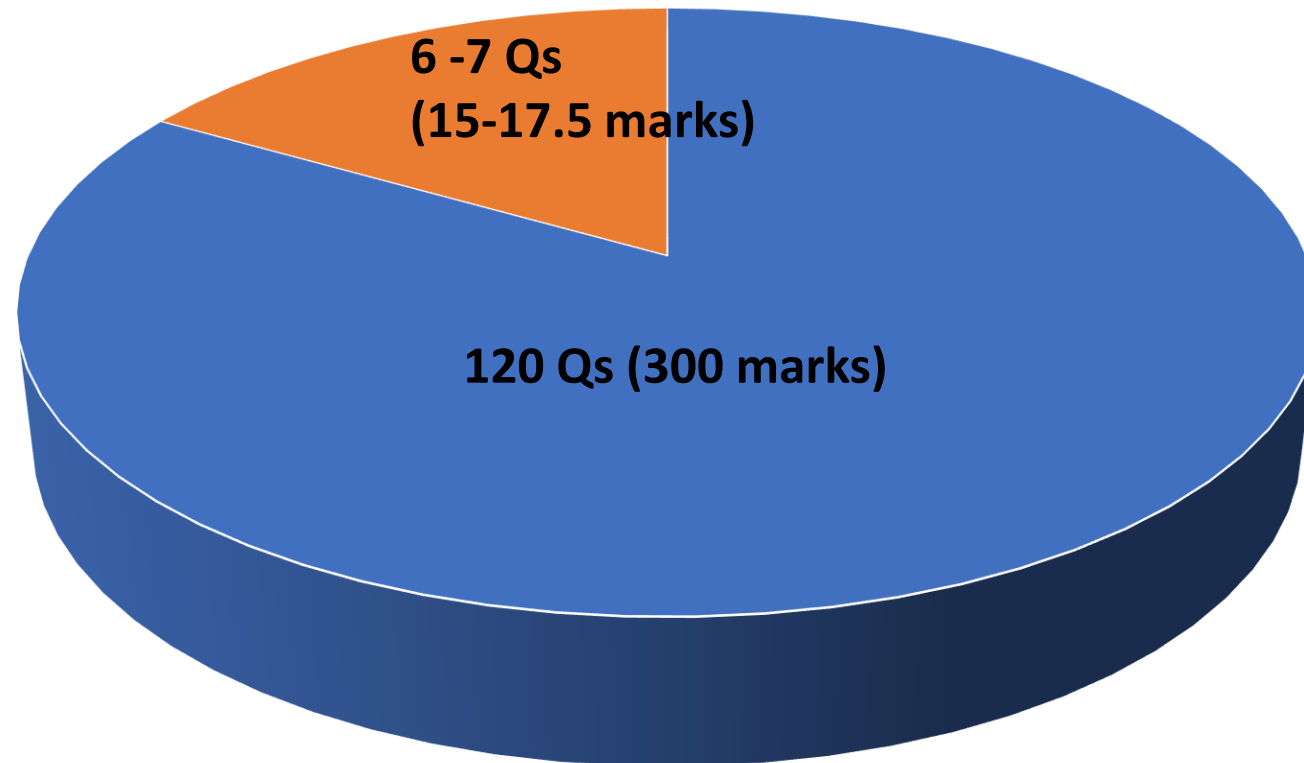
PERMUTATION AND COMBINATION

NDA Previous Years Q&A Analysis



Permutation Combination

Expected No. of Questions & Marks Division



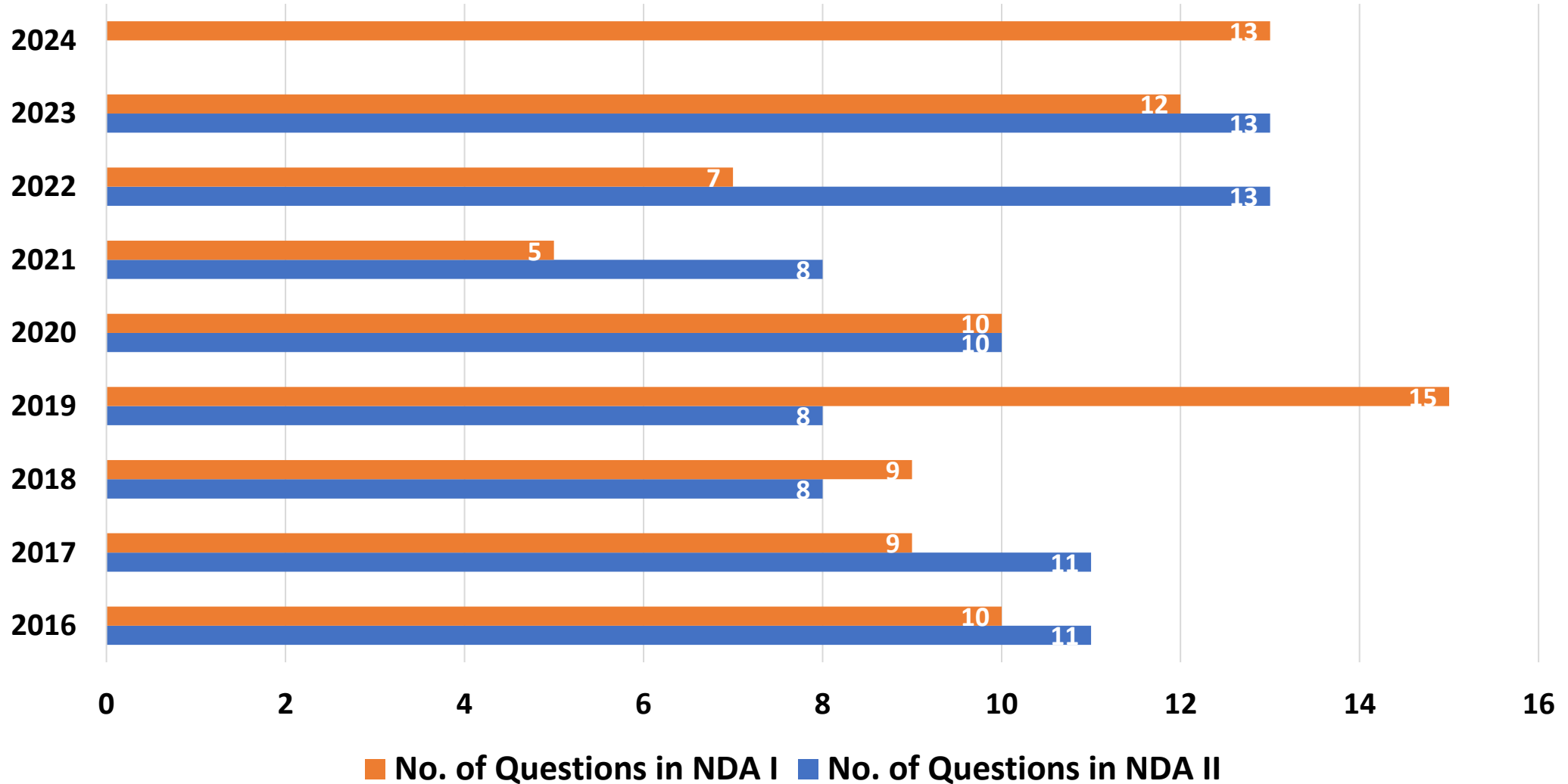
- Total no. of Questions & Marks
- No. of Perm. and Comb. Questions & Marks

Topic Importance: Permutation And Combination

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

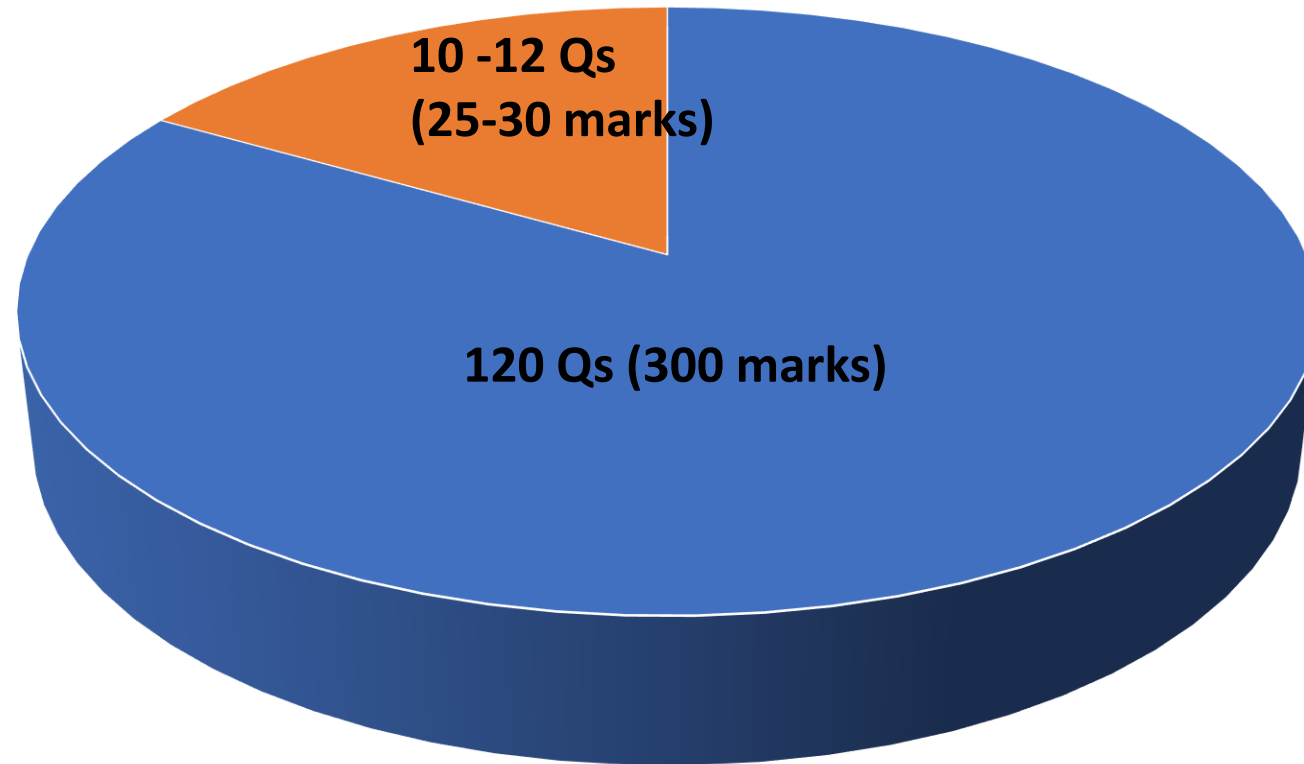
PROBABILITY

NDA Previous Years Q&A Analysis



Probability

Expected No. of Questions & Marks Division



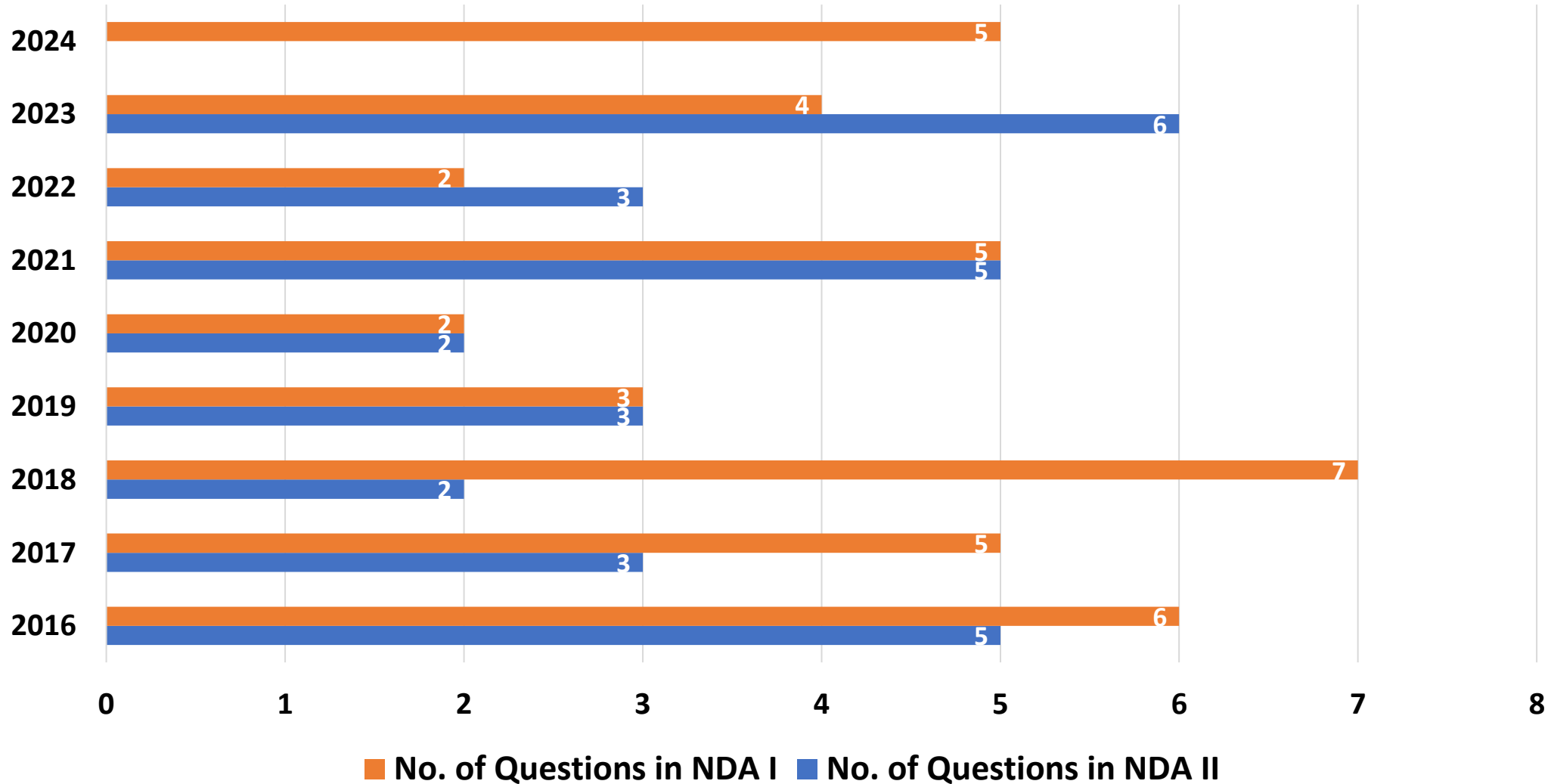
■ Total no. of Questions & Marks ■ No. of Probability Questions & Marks

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.

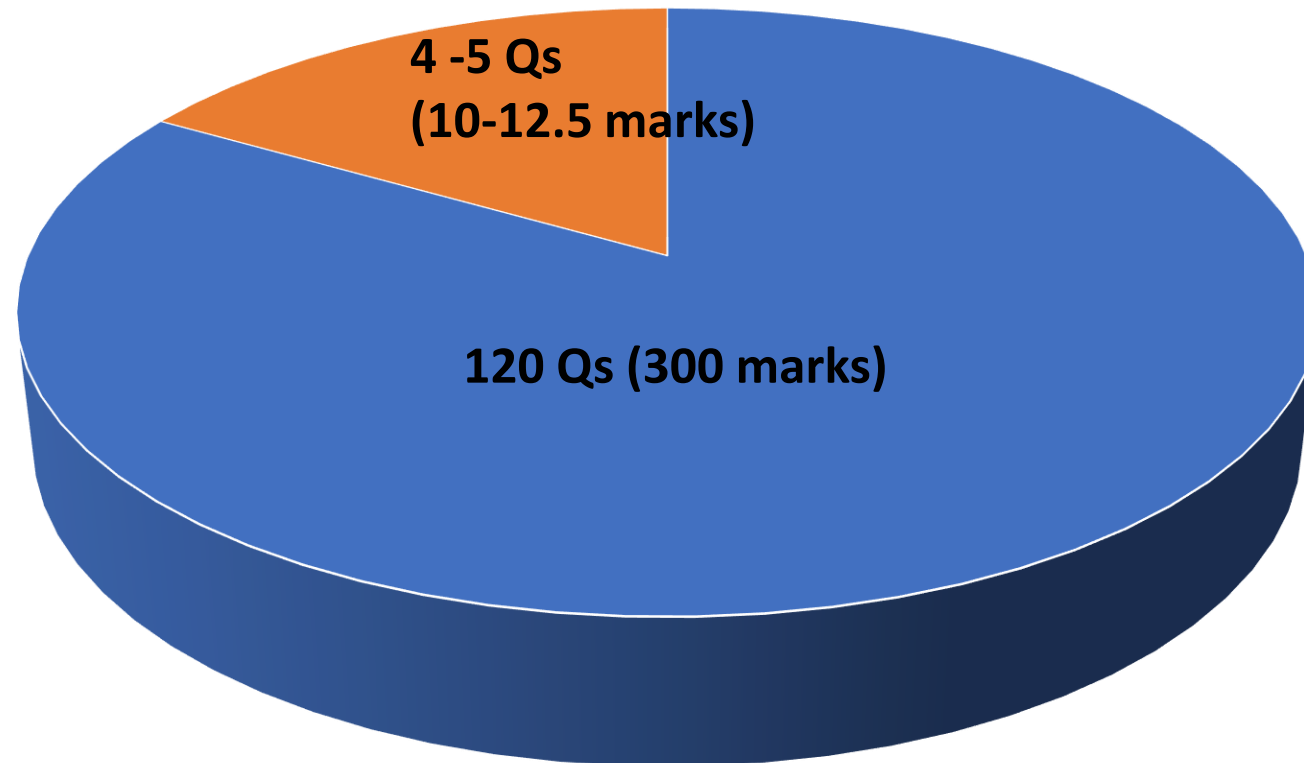
COMPLEX NUMBERS

NDA Previous Years Q&A Analysis



Complex numbers

Expected No. of Questions & Marks Division



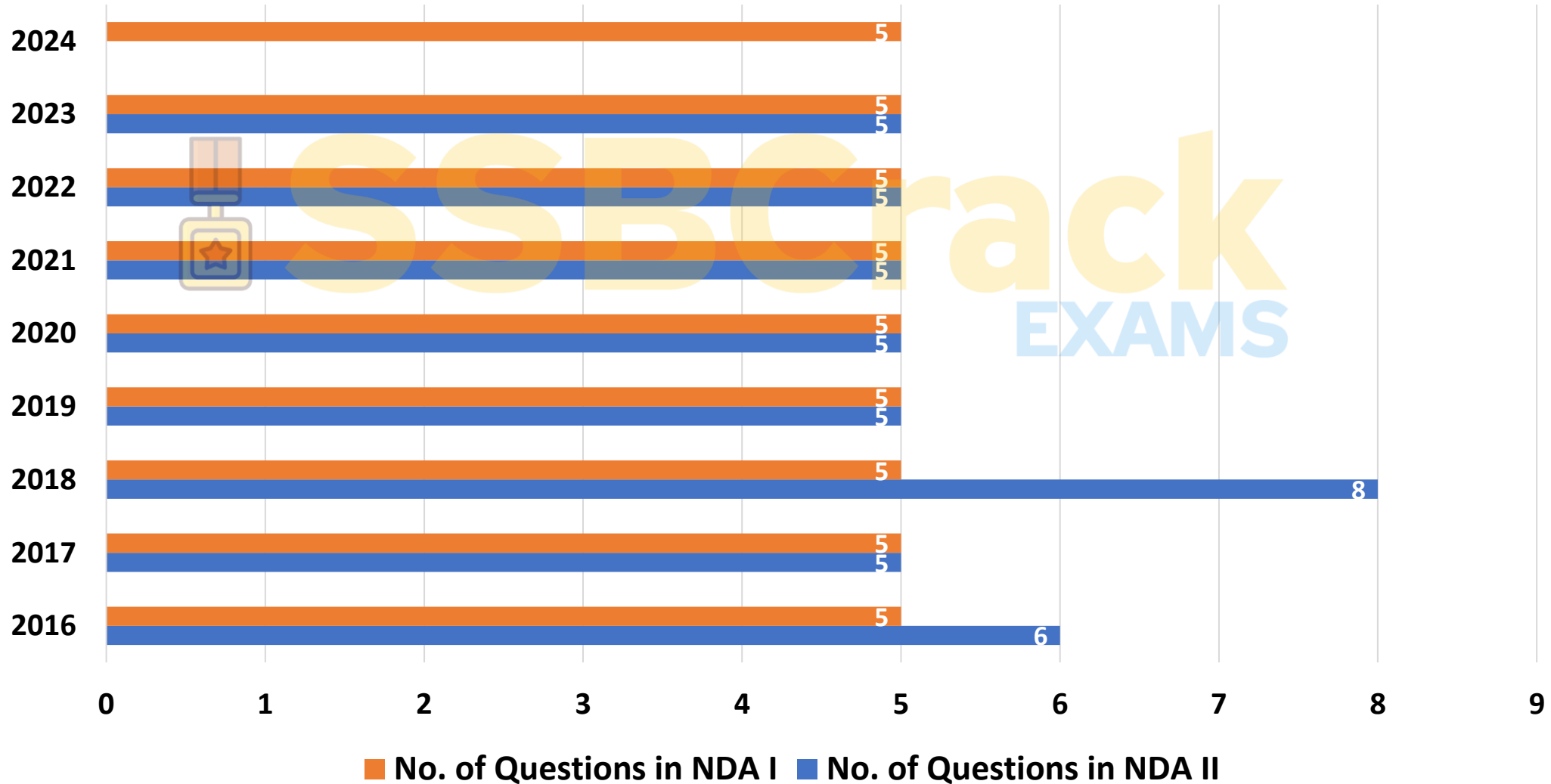
- Total no. of Questions & Marks
- No. of Complex Numbers Questions & Marks

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.

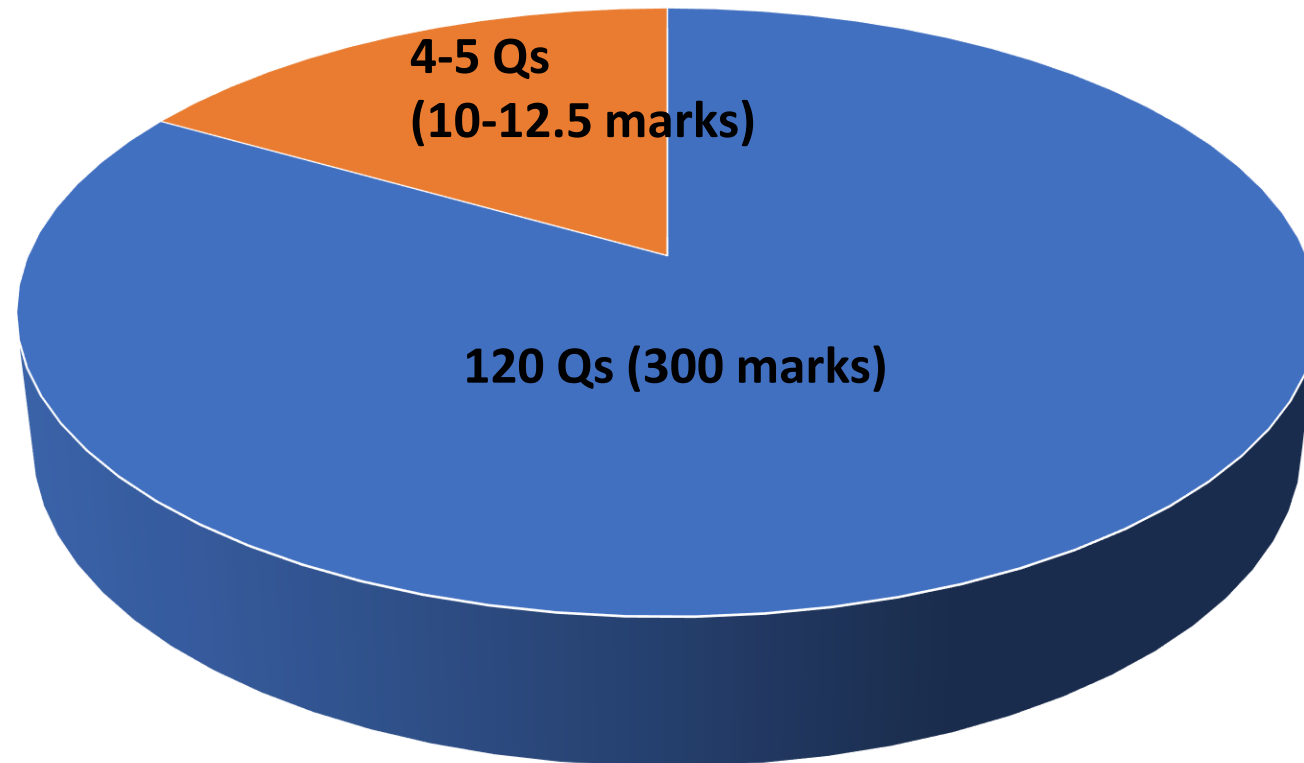
VECTOR ALGEBRA

NDA Previous Years Q&A Analysis



Vector Algebra

Expected No. of Questions & Marks Division



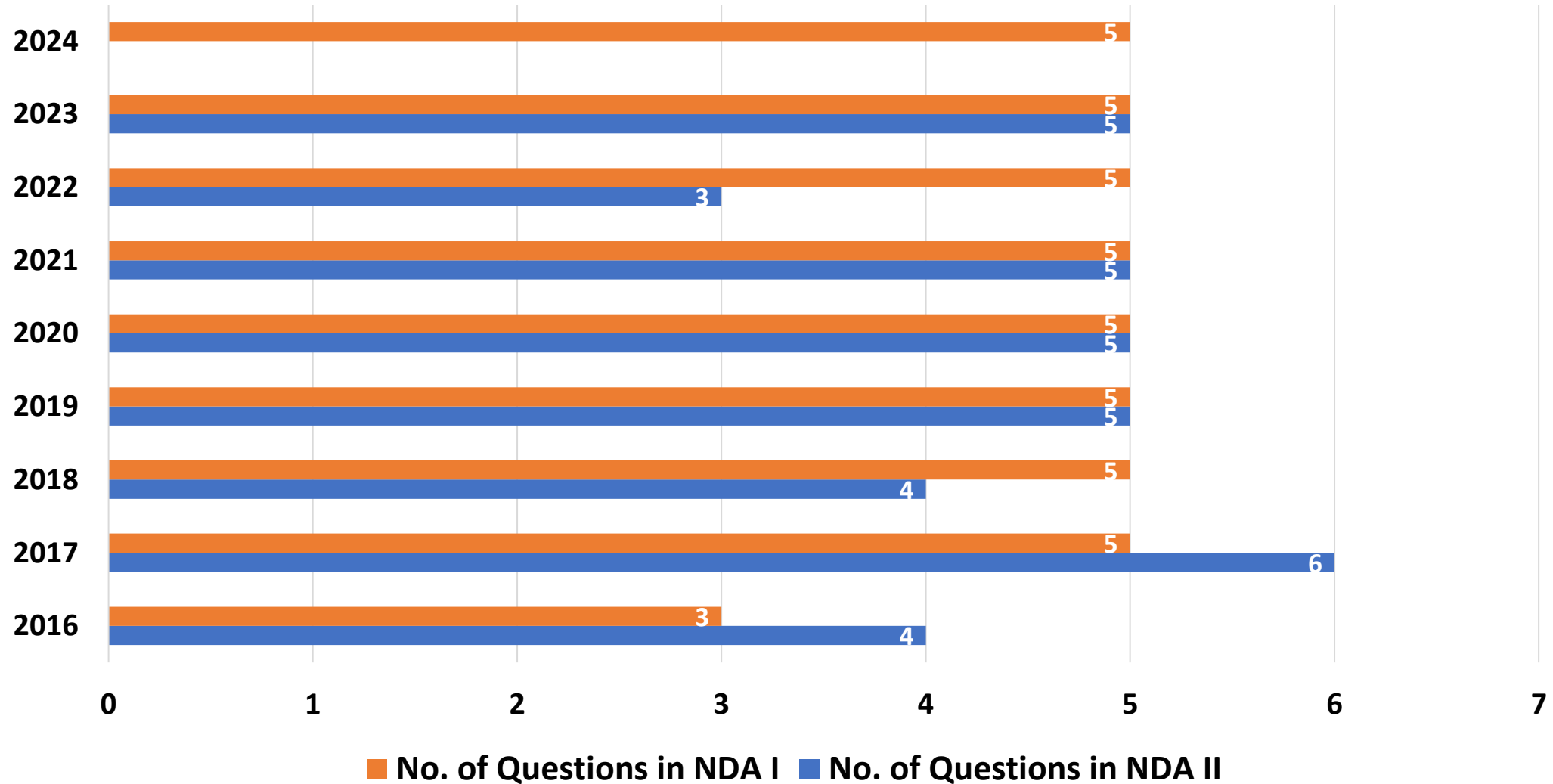
- Total no. of Questions & Marks
- No. of Vector Algebra Questions & Marks

Topic Importance: Vector Algebra

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

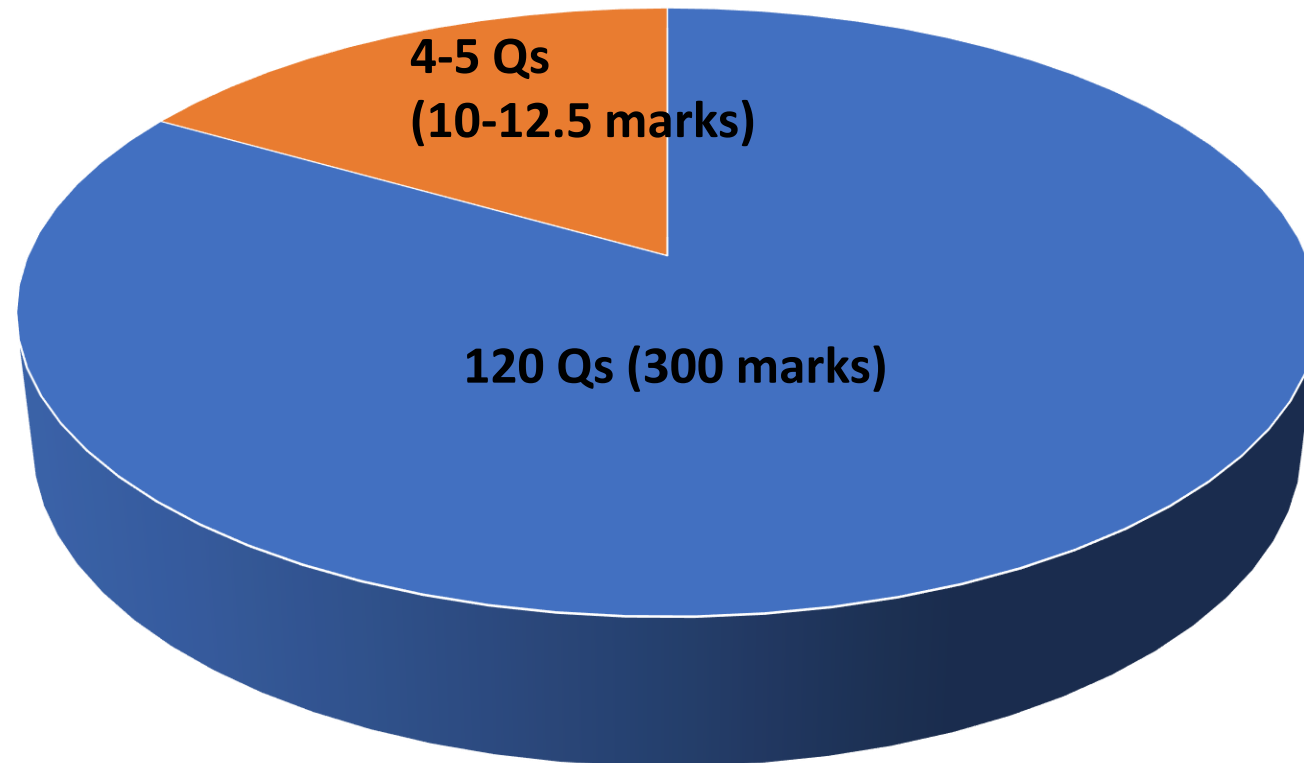
ANALYTICAL GEOMETRY 3D

NDA Previous Years Q&A Analysis



Analytical Geometry 3D

Expected No. of Questions & Marks Division



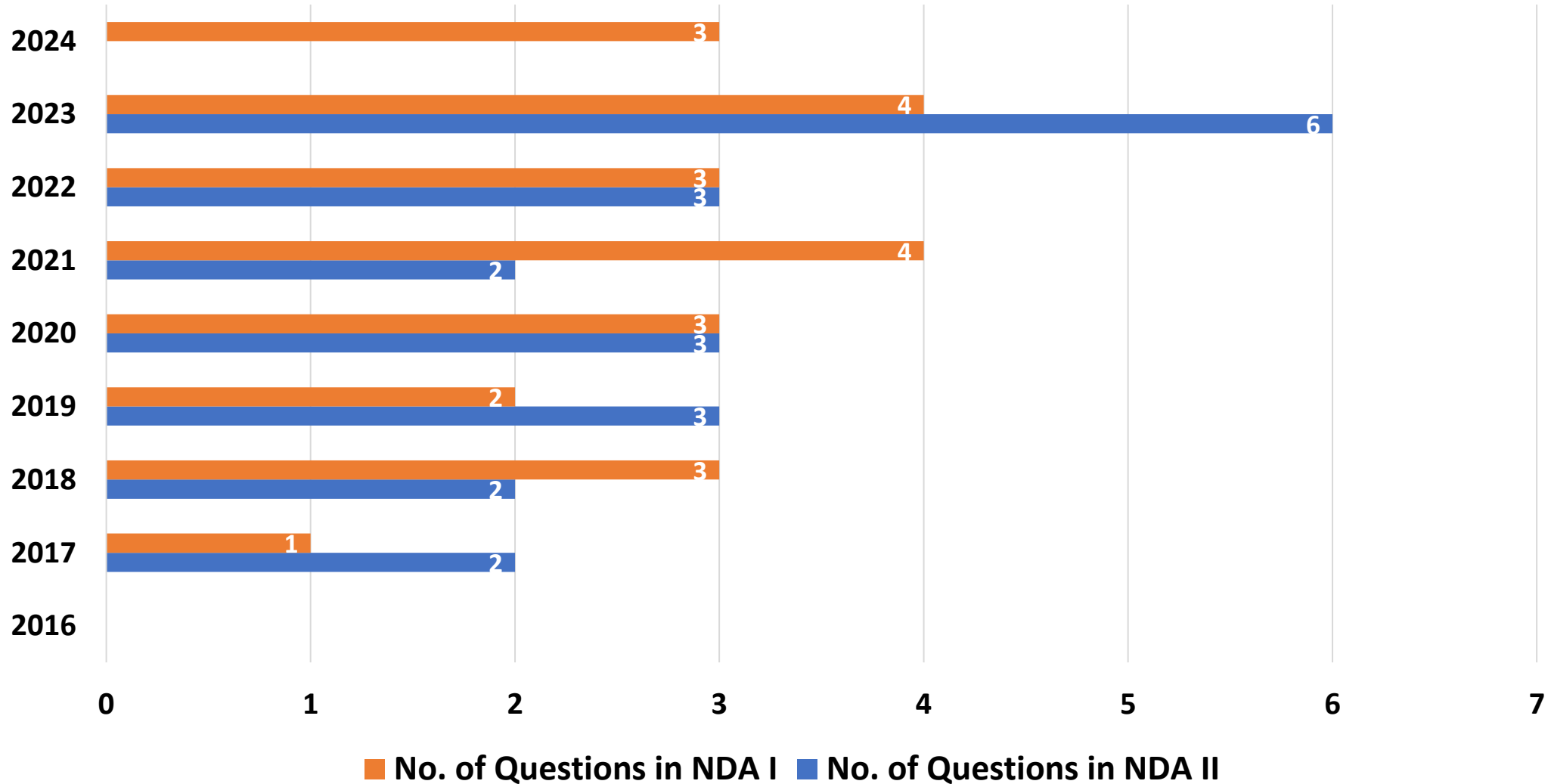
■ Total no. of Questions & Marks ■ No. of 3D Geometry Questions & Marks

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.

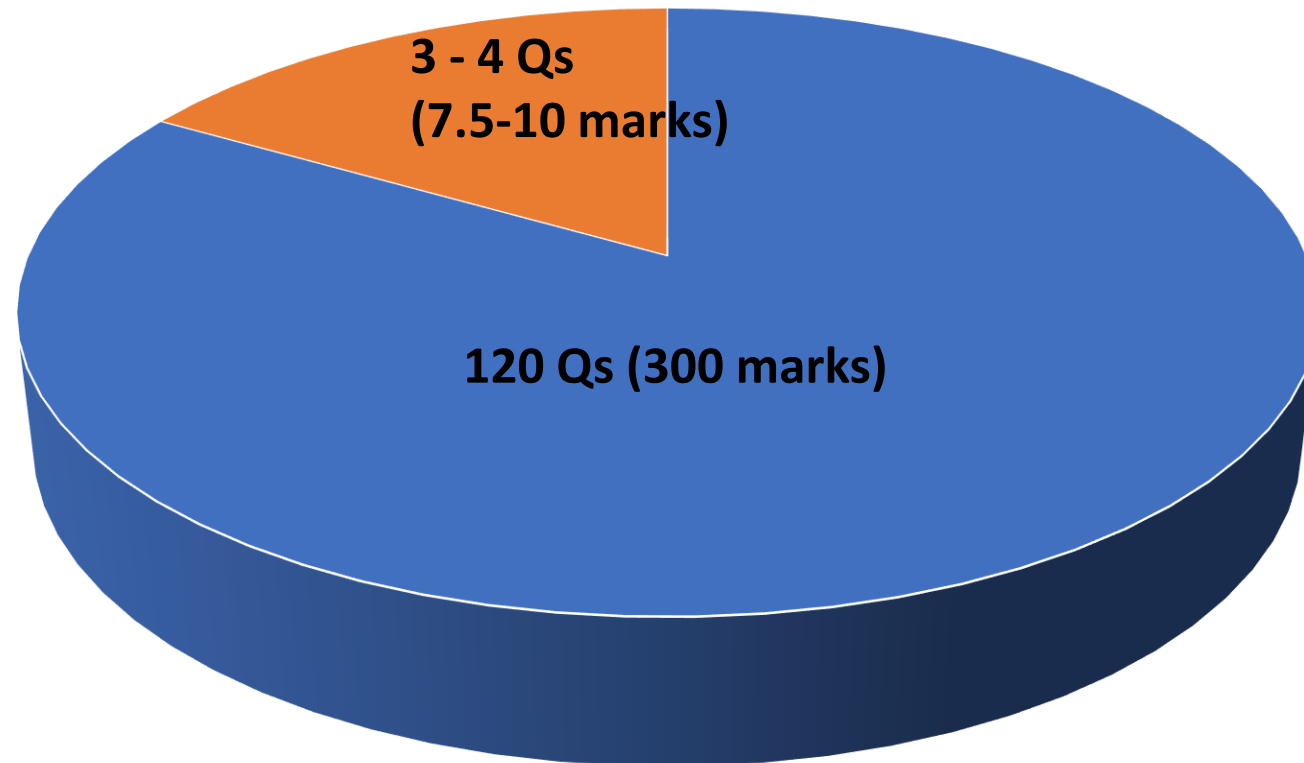
Binomial Theorem

NDA Previous Years Q&A Analysis



Binomial Theorem

Expected No. of Questions & Marks Division



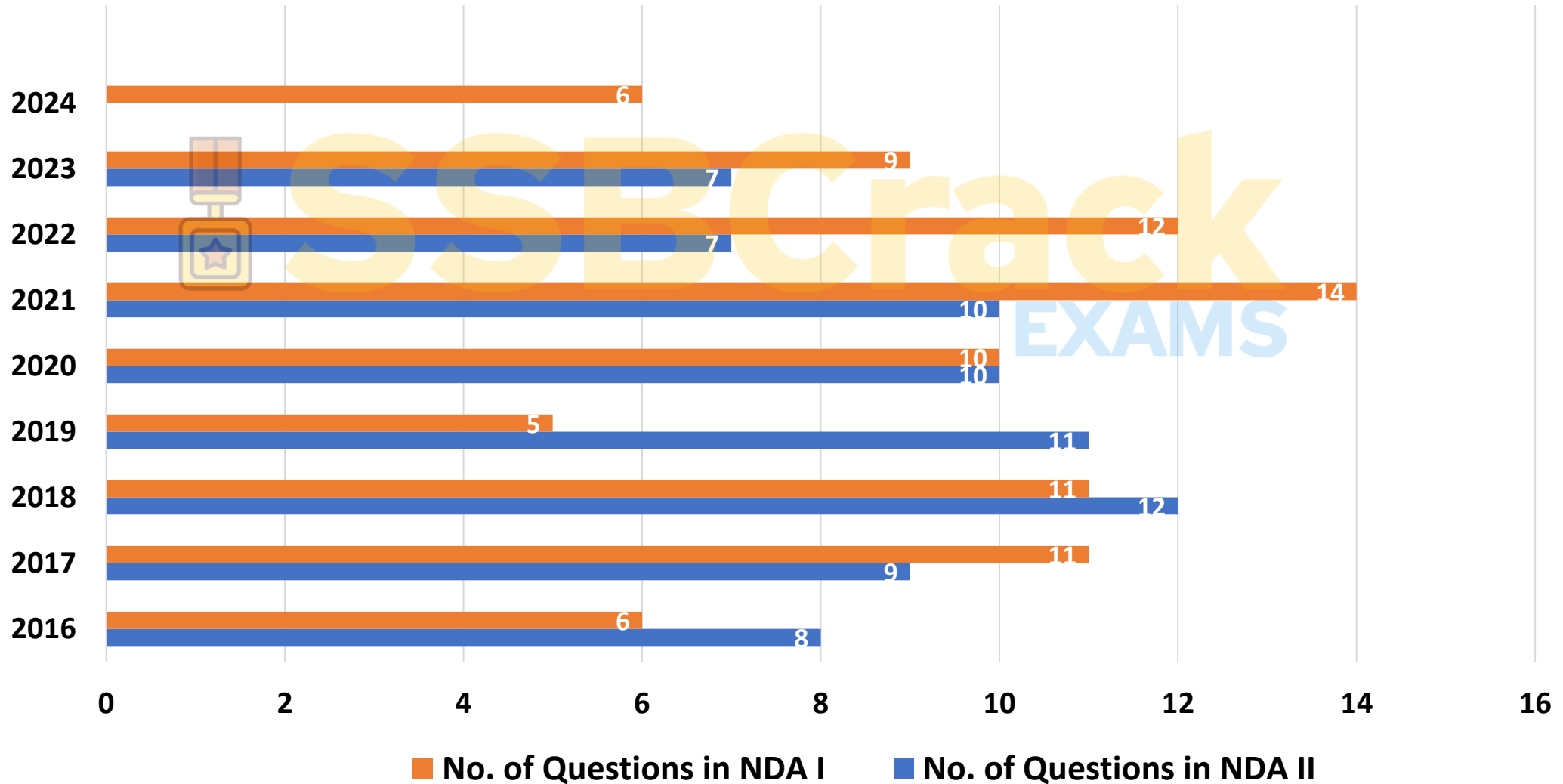
- Total no. of Questions & Marks
- No. of Binomial Theorem Questions & Marks

Topic Importance: Binomial Theorem

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

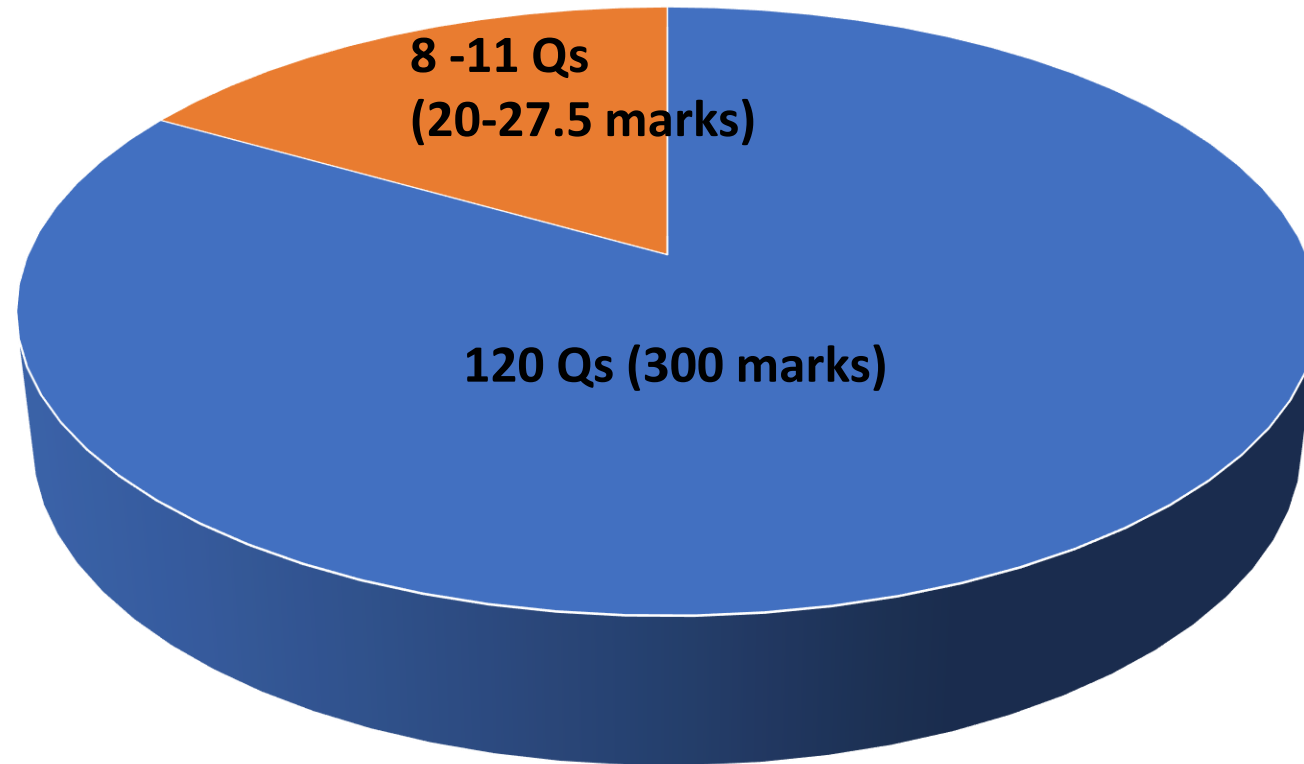
STATISTICS

NDA Previous Years Q&A Analysis



Statistics

Expected No. of Questions & Marks Division



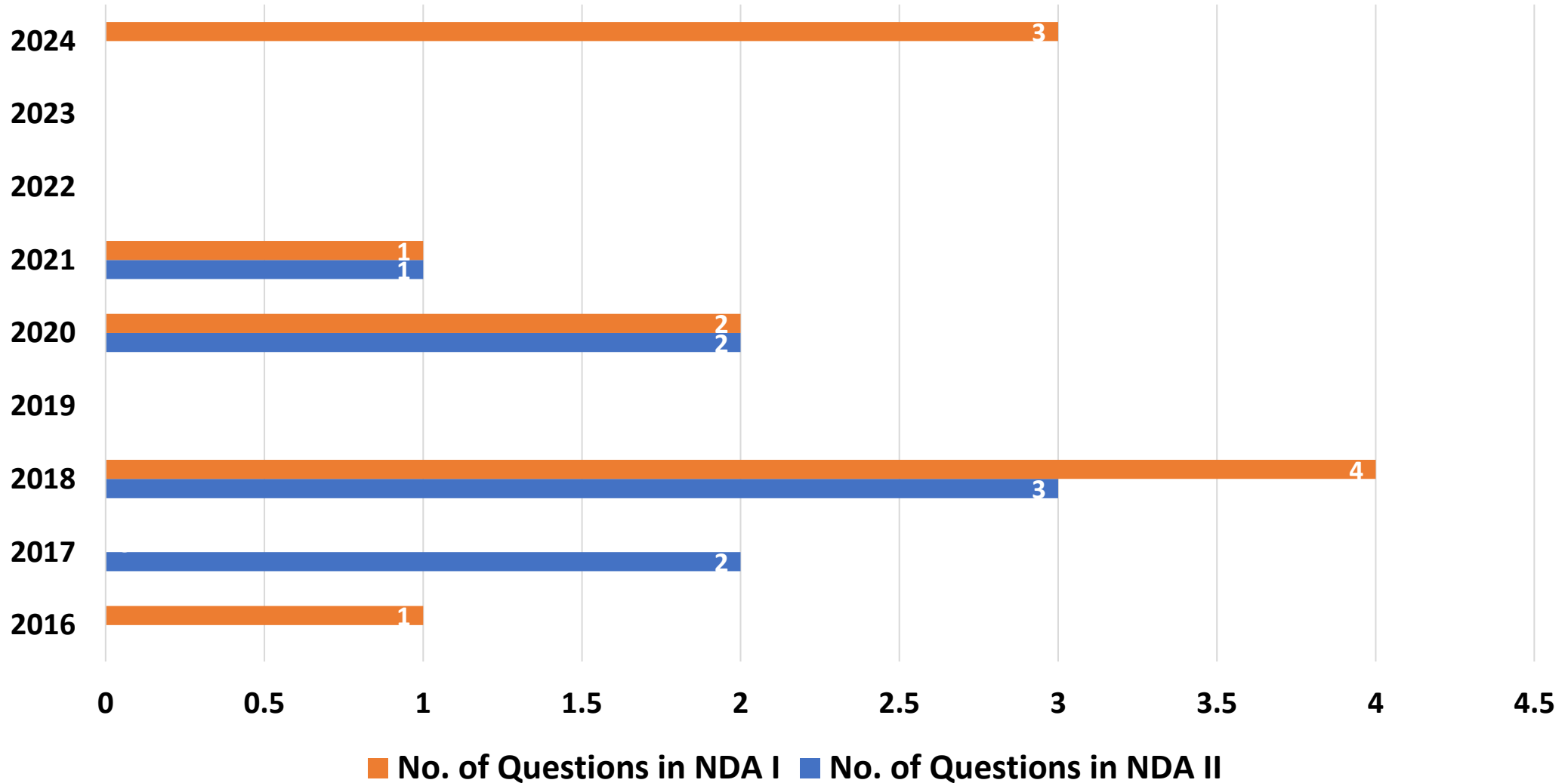
■ Total no. of Questions & Marks ■ No. of Statistics Questions & Marks

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.

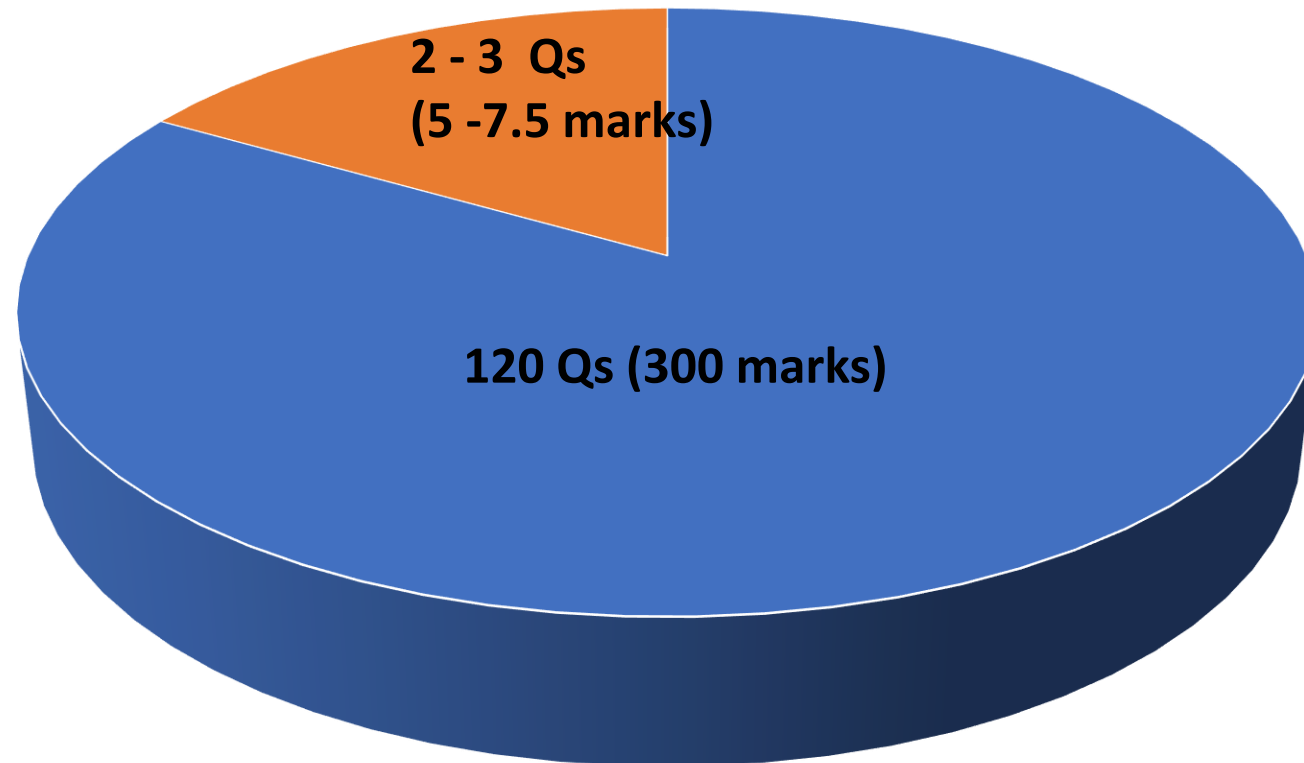
LOGARITHMS

NDA Previous Years Q&A Analysis



Logarithm

Expected No. of Questions & Marks Division



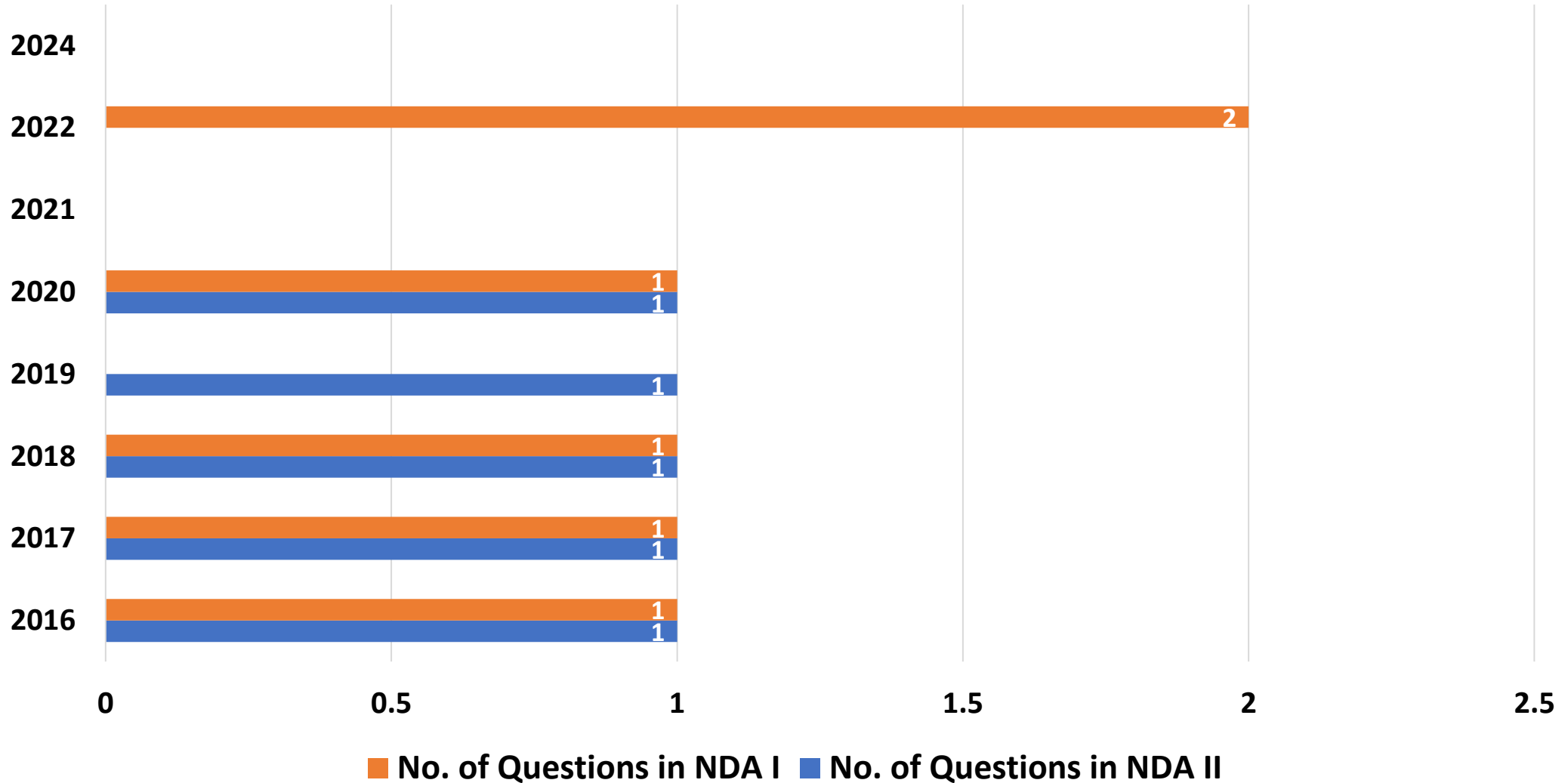
■ Total no. of Questions & Marks ■ No. of Logarithms Questions & Marks

Topic Importance: Logarithms

- Revise all the basic properties and practice some questions.

BINARY NUMBERS

NDA Previous Years Q&A Analysis

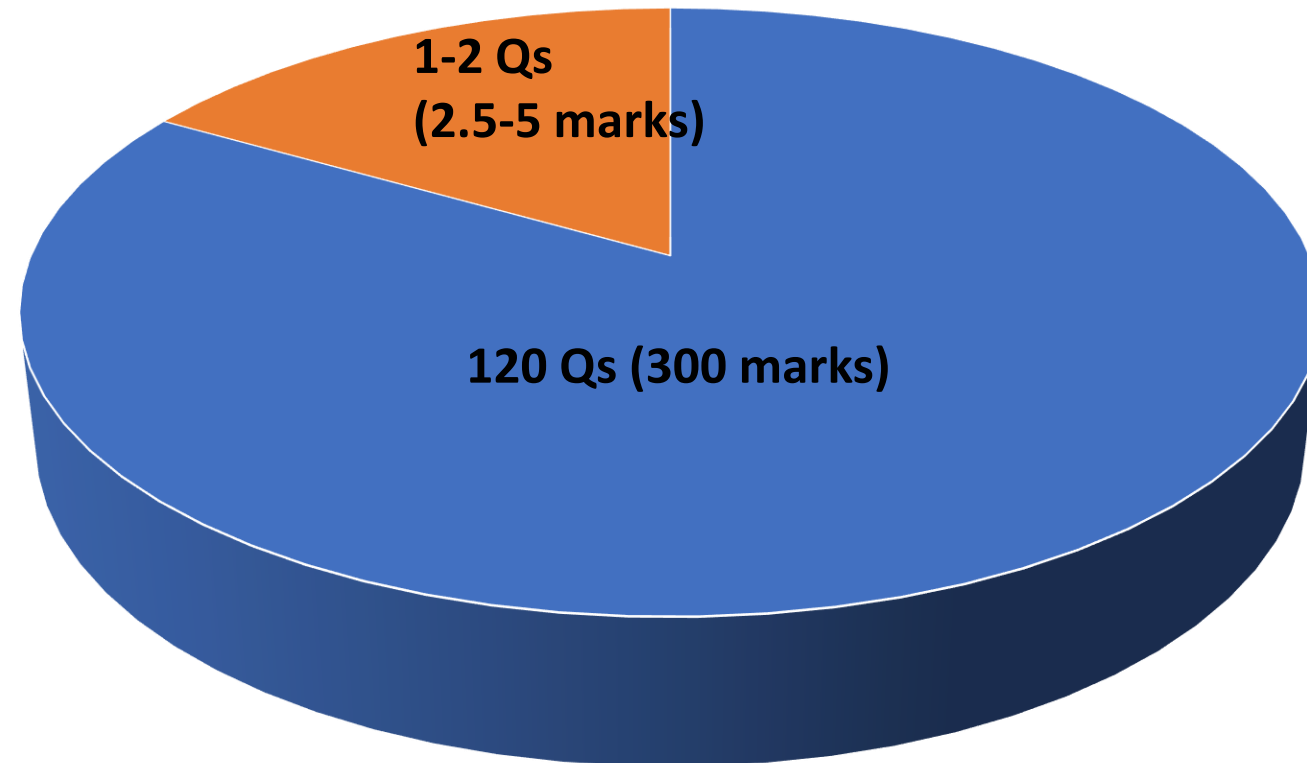


Topic Importance: Binary Numbers

- Cover the conversion of binary system to decimal system and vice versa and practice some questions.
- 2's complement based questions.

Binary Number

Expected No. of Questions & Marks Division



- Total no. of Questions & Marks
- No. of Binary Numbers Questions & Marks

NDA 1 2024 – AVERAGE NO. OF QUESTIONS

| Topics | No. of Questions |
|-----------------------------|------------------|
| TRIGONOMETRY | 12 - 17 |
| DIFFERENTIAL CALCULUS | 12 - 15 |
| INTEGRAL CALCULUS | 12 - 15 |
| PROBABILITY | 10 - 12 |
| MATRICES & DETERMINANT | 10 - 12 |
| PERMUTATION & COMBINATION | 6 - 7 |
| BINOMIAL THEOREM | 3 - 4 |
| STATISTICS | 8 - 11 |
| SEQUENCE & SERIES | 6 - 7 |
| SETS, RELATIONS & FUNCTIONS | 9 - 10 |
| COMPLEX NUMBER | 4 - 5 |

| Topics | No. of Questions |
|------------------------|------------------|
| ANALYTICAL GEOMETRY 2D | 9 - 12 |
| ANALYTICAL GEOMETRY 3D | 4 - 5 |
| VECTOR ALGEBRA | 4 - 5 |
| QUADRATIC EQUATIONS | 3 - 4 |
| LOGARITHMS | 2 - 3 |
| MISCELLANEOUS | 0-2 |

NDA 1 2024 – Math Live Classes

10-11 AM
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| Topics                         | No. of Classes |
|--------------------------------|----------------|
| SETS, RELATIONS & FUNCTIONS    | 3              |
| TRIGONOMETRY                   | 3              |
| COMPLEX NUMBER                 | 2              |
| QUADRATIC EQUATIONS            | 1              |
| INEQUALITIES                   | 1              |
| ANALYTICAL GEOMETRY 2D         | 3              |
| ANALYTICAL GEOMETRY 3D         | 2              |
| VECTOR ALGEBRA                 | 2              |
| PERMUTATION & COMBINATION      | 2              |
| BINOMIAL THEOREM               | 2              |
| SEQUENCE & SERIES              | 2              |
| MATRICES & DETERMINANT         | 4              |
| LIMITS                         | 1              |
| CONTINUITY & DIFFERENTIABILITY | 1              |

| Topics                | No. of Classes |
|-----------------------|----------------|
| DIFFERENTIATION       | 2              |
| AOD                   | 2              |
| INTEGRATION           | 3              |
| AREA UNDER CURVES     | 1              |
| DIFFERENTIAL EQUATION | 2              |
| PROBABILITY           | 2              |
| STATISTICS            | 2              |
| LOGARITHM             | 1              |
| BINARY NUMBER         | 1              |



# Strategy to Ace NDA 2 2024 Maths Section

- 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 on a piece of paper.
- Solve as many Previous years papers as possible you can and that too in a time-bound manner. This will help you to manage your time during the exams. *Last 5 years*
- Always first complete basic concepts and then Practice a lot.
- Take NDA Mathematics Mock Tests without fail.
- Don't forget to chill out and relax!

# NDA 2 2024

LIVE

# MATHS

SETS-RELATIONS  
FUNCTIONS

CLASS 1

NAVJYOTI SIR

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