

**SYLLABUS- ENGLISH**  
**FOR 'AGNIPATH' RECRUITMENT SCHEME**

**Topics Proposed for New Portal**

(i) **A short passage followed by four questions to test comprehension.**

The questions will be set

1. To judge understanding of the passage
2. To draw inference
3. To judge understanding of vocabulary

(ii) **Grammar-1**

1. Subject- Verb concord
2. Forms of verbs and errors in the use of verbs, etc.
3. Sequence of tenses and errors in the use of tenses.
4. Transformation of sentences Compound, Complex, Simple, Negative, Affirmative, Comparative degree, Positive degree, Superlative degree, etc.

(iii) **Grammar-2**

1. Formation of Words- Nouns from Verbs and Adjectives, Adjectives from Nouns and Verbs, Adverbs from Adjectives, etc.
2. Determiners
3. The Preposition
4. Nouns and Pronouns
5. The Adjectives
6. The Adverb
7. The Conjunction
8. The modals
9. Clauses- Noun clauses, Adverb clauses of condition and time and Relative Clauses.

(iv) **Vocabulary**

1. Synonyms and Synonyms in context
2. Antonyms and Antonyms in context
3. One word substitution
4. Spelling pitfalls
5. Simple Idioms/ Phrases
6. Words often confused/ Selecting the correct word fitting in a sentence

(v) **Narration (Direct and Indirect)**

1. Commands and requests
2. Statements (Various tenses)

3. Questions (Various forms of questions, tenses, etc.)

(vi) **Voice (Active and Passive)**

1. Changes required under each tense
2. Other conditions for transforming Active into Passive

- (a) The Preposition
- (b) Modal Auxiliaries
- (c) Infinitive
- (d) Participles

(vii) **Jumbled Sentences**

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## SYLLABUS- MATHEMATICS

### FOR 'AGNIPATH' RECRUITMENT SCHEME

Sr No	Topics Proposed for New Portal
1.	Sets , Relations and Functions
2.	Trigonometric Functions
3.	Inverse Trigonometric Functions
4.	Complex Numbers and Quadratic Equations
5.	Linear Inequalities
6.	Permutations and Combinations
7.	Binomial Theorem
8.	Sequences and Series
9.	Straight Lines and family of lines
10.	Circles and family of Circles
11.	Conic Sections
12.	Three-dimensional Geometry
13.	Matrices and Determinants
14.	Limit and Continuity
15.	Differentiation
16.	Application of Derivatives
17.	Indefinite Integrals
18.	Definite Integrals
19.	Application of Integrals
20.	Differential Equations
21.	Differential Equations
22.	Vectors
23.	Probability
24.	Statistics

## SYLLABUS- PHYSICS

### FOR 'AGNIPATH' RECRUITMENT SCHEME

<b>Sr No</b>	<b>Topics Proposed for New Portal</b>
1.	Physical World and Measurement
2.	Kinematics
3.	Laws of Motion
4.	Work, Energy and Power
5.	Motion of System of Particles and Rigid Body
6.	Gravitation
7.	Properties of Bulk Matter
8.	Thermodynamics
9.	Behaviour of Perfect Gases and Kinetic Theory of Gases
10.	Oscillations and Waves
11.	Electrostatics
12.	Current Electricity
13.	Magnetic Effects of Current and Magnetism
14.	Electromagnetic Induction and Alternating Current
15.	Electro Magnetic Waves
16.	Optics
17.	Dual Nature of Matter and Radiation
18.	Atoms and Nuclei
19.	Electronic Devices

## SYLLABUS RAGA

### Reasoning (Verbal and Non- Verbal )

1. Numerical series.
2. Distance and Direction sense Test.
3. Mathematical Operations
4. Number, Ranking & Time Sequence Test.
5. Assign Artificial Values to Mathematical Digit.
6. Inserting Correct Mathematical sign.
7. Human relation.
8. Coding & Decoding
9. Odd man out.
10. Mutual relation problems.
11. Tallest, youngest relations.
12. Dictionary words.
13. Analogy.
14. Non- Verbal reasoning.
15. Number coding.
16. Number Puzzle.

### Mathematics

1. Ratio and Proportion.
2. Average.
3. LCM & HCF.
4. Profit and Loss.
5. Time, Distance and Speed.
6. Percentage.
7. Simplifications of Numbers.
8. Fractions.
9. Area of triangle, Square and Rectangle.
10. Surface Area and volume of Cuboids, Cylinder, Cone and Sphere.
11. Probability.
12. Simple Trigonometry.

### General Knowledge and Current Affairs

1. General Science
2. Civics
3. Geography
4. Current Events
5. History
6. Basic Computer Operations