SYLLABUS – NON ENGINEERING

Paper I: NPAT 2020 - Common

Section 1 : Proficiency in English Language	
Construct	**Sub construct**
Error Recognition	Recognising grammatical structure and usage.
Applied Grammar	Using prepositions, determiners, connectives, tenses appropriately.
Vocabulary	Grasping the meaning of underlined words in sentences
Contextual Usage	Using appropriate words in the given context
Sequencing of Ideas	Putting ideas into logical sequence by putting jumbled sentences in the correct order
Reading Comprehension (3 in Passages of 400-500 words with 5 Questions per Passage)	Locating Information, grasping ideas, identifying relationships, interpreting ideas, moods, characteristics of characters, tone of passage, inferring, getting the central theme, evaluating

Section 2: Quantitative and Numerical Ability	
Construct	**Sub construct**
Number System	Fractions, Surds and Decimals, Number Series
Arithmetic	Percentages, Profit & Loss, Discount, Compound Interest & Annuities, Ratio & Proportions, Time, Work & Distance, 2 D & 3D Figures- Areas & Volumes
Algebra	Basic Algebraic Identities, Equations - Linear & Quadratic sequence and Series (AP, GP)
Sets and Functions	Sets, Operation on Sets and their Applications, using Venn Diagrams, functions
Elementary Statistics & Probability	Mean, Mode, and Median, Measures of Dispersion
Trigonometry	Trigonometric Rations, identities, Height and Distances

Section 3: Reasoning & General Intelligence	
Construct	**Sub construct**
Critical Thinking	Decision Making (Take into cognizance various rules/ conditions and take decisions based upon those rules / conditions) Problem Solving (To analyse the given information and condense all the information in a suitable form and answer the questions asked)
Verbal-logical reasoning	Derive conclusions from logical premises or assess the validity of arguments based on statement of facts
Data sufficiency	Judge if the information given is sufficient to answer the question or some additional information is required
Numerical Reasoning	Venn Diagram (Identify the class-sub class relationship among given group of items and illustrate it diagrammatically) Mathematical Equalities
Data Interpretation	Be able to use the information given in graphs and charts to answer questions
Spatial Reasoning	Figure Analogy (Choosing the figure from the alternatives that match with relationship specified by a given figural pair) Figure Matching / Classification (Notice the common quality in figures to be able to match figures or find the odd one out) Figure Series (To discover a pattern in the formation of figures in a sequence to be able to complete the series / identify the missing figures)