Test Structure and Syllabus

Module Type	Duration	Sections	# of items	Topics
Aptitude	45 mins	English Usage	15	Reading Comprehension; Grammar including Articles, Prepositions, Sentence Correction, Speech, Tenses; Verbal Ability including Synonyms, Antonym, Spellings, Idioms and Phrase
		Analytical Reasoning	15	Visual Reasoning, Statement & Conclusions, Relationships, Logical Reasoning, Attention to Details and Flowcharts
		Numerical Reasoning	15	Concepts of Mathematics including Time & Work, Speed & Distance, Algebra, Equations, Progressions, Profit & Loss, Ratio, Averages, Geometry and Data Interpretation
Computer Fundamentals	15 mins		15	Pseudocode, Email and Email Applications, Basic Database Awareness, Computer Hardware and Software, Computer Applications, Network and IT Literacy
Psychometric	12 mins		50	Behavioral profiling based on commonly known personality traits
Domain	20 mins	Civil	20	Building Material, Construction Scheduling, RCC Design, Design of Steel Structure, Environmental Engineering, Soil Mechanics and Foundation, Structural Analysis, Water Resource engineering and Hydrology
		Electrical	20	Electrical Machines, EMMI, Power Electronics and Instrumentation, Network Analysis and Synthesis, Control Systems, Digital Electronics Microcontroller and Microprocessor
		Mechanical	20	Thermodynamics, Design of Machine Members, IC Engines and Compressors, Theory of Machine, Engineering Material and Metrology, Strength of Materials, Fluid Mechanics, Manufacturing Process
		Electronics	20	Electronic Devices & EMMI, Network Analysis and Synthesis, Microprocessor & Micro controllers, Digital Electronics, Communication Engineering, Control System
		Computer Science	20	C, C++, OOPS Concepts, Data Structures, DBMS concepts, Operating System Concepts, Design and Analysis of Algorithms, Networking Concepts, Computer Architecture
		Chemical	20	Chemical Thermodynamics and Reaction engineering, Fluid Dynamics, Heat and Mass Transfer, Industrial Chemistry, Polymers, Process Dynamics, Control and Measurements, Reaction Kinetics
Coding	45 mins		3	Writing codes to solve a set of problems in language of choice: C, C++, C#, Java, Python
Written English Test (WET)	25 mins		1	Candidate has to write his/her views on simple topics of general awareness. English Grammar, Sentence Construction and Vocabulary are assessed along with relevance to topic and adherence to word limit. Example of a topic - Should schools have uniforms