DRDO SCIENTIST 'B' Syllabus 2021

DRDO 'Scientist 'B' Syllabus is as follows:

1. Chemical Engineering - Fluid Mechanics and, Mechanical Operations, Process Calculations and Thermodynamics, Heat Transfer, Databases, Mass Transfer, Digital Logic, Theory of Computation, Chemical Reaction Engineering, Chemical Technology, Instrumentation and Process Control, Plant Design and Economics, DRDO SET Exam Syllabus For Computer Science and Engineering (CS):, Compiler Design, Computer Organization and Architecture, Programming and Data Structures Algorithms, Computer Networks,

2. Computer Science Engineering - Engineering Mathematics, Discrete Mathematics, Digital Logic, Computer Organization and Architecture, Programming and Data Structures, Algorithms, Compiler Design, Databases, Computer Networks, Security of Cyber-Systems, AI and Machine Learning.

3.Electronics and Communication Engineering: Networks, Signals and Systems, Communications, Analog Circuits, Control Systems, Electromagnetics, Electronic Devices, Digital Circuits.

4.Electrical Engineering: Signals and Systems, Control Systems, Power Systems, Electric Circuits and Fields, Electrical and Electronic Measurements, Power Electronics and Drives, Electrical Machines.

5.Mechanical Engineering: Strength of Materials, Forming, Engineering Mechanics, Operations Research, Engineering Materials, Theory of Machines, Joining, Computer Integrated Manufacturing, Production Planning and Control: Inventory Control, Vibrations, Design, Fluid Mechanics, Heat-Transfer, Metal Casting, Thermodynamics, Applications, Machining and Machine Tool Operations, Metrology and Inspection.

6. Instrumentation Engineering: Mechanical Measurement and Industrial Instrumentation, Transducers, Analog Electronics, Control Systems and Process Control, Digital Electronics, Electrical and Electronic Measurements, Basics of Circuits and Measurement Systems, Signals, Systems, and Communications, Analytical, Optical and Biomedical Instrumentation,

7. Logical Relations: Analogies: Blood Relations, Artificial Language, Cause and Effect, Syllogism, Clocks, Calendars, Coding-Decoding, Critical path, Ranking, Cubes and cuboids, Data Sufficiency, Alphanumeric series, Decision Making, Mirror

and Water Images, Odd One Out, Deductive Reasoning/Statement Analysis Dices, Picture Series and Sequences, Paper Folding, Input-Output, Statement and Assumptions, Directions, Embedded Images, Figure Matrix, Pattern Series and Sequences, Seating Arrangements, Statement and Conclusions, Shape Construction Simple equation and age problems

8. Spatial Reasoning: Directions, Arithmetical Reasoning, Problem-Solving, Figural Series,

Verbal & Figure Classification, Similarities & Differences, Analogies, Relationship Concepts, Space Visualization, Coding-Decoding, Arithmetical Number Series, Decision-Making, Analysis & Judgment, Discrimination, Visual Memory, Data Sufficiency etc.

9.English: Articles: Sentence Rearrangement, Adverb, Antonyms, Vocabulary, Conclusion, Subject-Verb Agreement, Word Formation, Grammar, Fill in the Blanks, Theme detection, Passage Completion, Sentence Completion, Idioms & Phrases, Unseen Passages, Synonyms, Tenses, Verb, Error Correction.