

COAL INDIA LIMITED
RECRUITMENT OF MANAGEMENT TRAINEES 2016-17
SYLLABUS FOR PAPER-I :COMMON FOR ALL DISCIPLINES

General Knowledge/awareness

Everyday Science, Scientific Research, Sports, Indian Culture, Indian History, Indian national movement, World & Indian Geography, Natural resources Indian Economy, Indian Polity, Indian Constitution, National & International current affairs, Environment, India's Agriculture, Trade & Commerce, Basic Information technology.

Numerical ability

Number System, decimals, fractions and relationships between numbers, Percentage. Ratio & Proportion, Square roots, Averages, Interest, Profit and Loss, Discount, Mixture and Allegation, Time and distance, Time & Work, Basic algebraic identities of School Algebra, , Factor, Heights and Distances. A.P. & G.P. Series

Reasoning

Analogies, similarities and differences, space visualization, spatial orientation, problem solving, analysis, judgement, decision making, Visual memory, discrimination, observation, relationship concepts, arithmetical reasoning and figural classification, arithmetic number series, non- verbal series, coding and decoding, Word Building statement conclusion, syllogistic reasoning , puzzle, Venn Diagrams , Space Visualization , Symbolic/Number Classification, Figural Classification etc.

General English

Error recognition, fill in the blanks (verbs, Preposition etc.) synonyms, antonyms, spelling/detecting Mis-spelt words, idioms & phrases, one word substitution, sentences structure, Sentence completion, shuffling of sentence parts, shuffling of sentences in a passage, comprehension passage

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SYLLABUS FOR PAPER-II : ENVIRONMENTAL ENGINEERING(Post Code 18)

Ecology – Ecosystem: classification/types and functions, energy sources - renewable, non renewable, natural resources

Environmental chemistry: chemistry involved in water and wastewater treatment, water and wastewater parameters analysis procedures

Water Sources, water quality: physical, chemical and biological water quality and their prescribed standards standards, water borne diseases, water treatment - physical and chemical treatment process

Wastewater: characteristics and composition, sources, physical and chemical treatment operations and processes, biological treatment processes - anaerobic and anaerobic treatment system - their working principle and design

Air pollution fundamentals: sources, effects, standards, meteorology of air pollution, air quality managements, air quality monitoring,, air pollution control systems, their working principles and design

Solid waste: characteristics and composition, functional units of solid waste managements, solid waste treatment techniques, ultimate disposal

Environmental impact assessment (EIA): attributes of EIA, EIA procedure, environmental auditing, environmental clearance process, Environmental legislation – Salient features of The Air Act, 1981; Environment Act, 1986; Water Act, 1974; Wild Life Act, 1972 etc. and their salient features