



DEMYSTIFYING THE APTITUDE

An APTITUDE test is any test designed to measure potential for achievement.

APTITUDE - means how quickly or easily will you be able to learn in future

ABILITY - what we can demonstrate in the present

ACHIEVEMENT - what we have accomplished in the past





TYPES OF APTITUDE

- **Verbal - understanding words & using them effectively**
- **Numerical - working with numbers quickly & accurately**
- **Spatial - understanding geometric forms & patterns**
- **Clerical perception - reading, analyzing & obtaining details from written data, tabulated material or graphical representations**

FOR VERBAL APTITUDE

- For general level - General Objective English, by R S Agarwal, S Chand publishers
- For Competitions - Objective English, by E Thorpe, in Pearson Education
- For CAT - How to prepare for the Verbal Ability and Reading Comprehension of the CAT, by Arun Sharma, Tata McGraw Hill Publishers
- For GRE/GMAT/TOEFL/IELTS - Barron's Guide, Princeton Review, Pearson Education, Kaplan, ETS Guides



FOR QUANTITATIVE



- For general level - Quantitative Aptitude, by R S Agarwal, S Chand publishers
- For Competitions - Quantitative Techniques, by M Tyra, Vedic Maths by Dhaval Bhatia, Jaico Books
- For CAT - How to prepare for the Quantitative Aptitude of the CAT, by Arun Sharma, Tata McGraw Hill Publishers
- For GRE/GMAT - Barron's Guide, Princeton Review, Pearson Education, Kaplan, ETS Guides

FOR DI & LR



- For general level - Data Interpretation & Logical Reasoning, by R S Agarwal, S Chand publishers
- For Competitions - Test of Reasoning, by E Thorpe, Tata McGraw Hill Publishers
- For CAT - How to prepare for the Data Interpretation & Logical Reasoning of the CAT, by Arun Sharma, Tata McGraw Hill Publishers
- For GRE/GMAT - Barron's Guide, Princeton Review, Pearson Education, Kaplan, ETS Guides

OTHER RESOURCES



- ▣ Puzzles to puzzle you, by Shakuntala Devi & also More puzzles to puzzle you
- ▣ Quantitative Aptitude, by Abhijit Guha
- ▣ Puzzles & Teasers by George Summers
- ▣ Vocabulary in Use by McCarthy & O'Dell, a set of 4 workbooks in Cambridge University Press
- ▣ Essential Words for the GRE, New Age Int'l Publishers
- ▣ Vocabulary in Practice by Glennis Pye, in Cambridge University Press
- ▣ www.freshersworld.com , www.skillsrack.com ,
www.indiabix.com , www.techgig.com ,
www.techgyan.com , www.businessballs.com



CAREER OPTIONS ...

- Refer to the following websites to search for **summer trainings** and **internships**
- www.keltronrec.org
- www.twenty19.com/internships
- www.ssitedi.com , www.techvidhya.in
- www.cidc.in , www.doeaccchd.edu.in/course-finder
- www.stqc.gov.in , www.syncroute.com
- www.prolificttraining.com
- www.npti/training.aspx
- www.processtraining.in
- www.edpti.com , www.iseek.org

Career Options ... Certifications

- For ME students
- Robotics , HVAC, Mechatronics
- AutoCAD
- CATIA
- StudioMax
- CAM, CNC machining
- Hypermesh
- Ansys
- Unigraphics (Nx)
- Piping-stress analysis
- Tool designing, engineering drawing



Certifications ...

- For CE students
 - CAD and CAM
 - StaadPro
 - WorkForce
 - Structural design
- PGD in Construction Project Management, from CMC



Certifications ...



- For EN/EC/EI ...
- MATLAB, VLSI, Embedded Systems
- LabView – SCADA, Mechatronics
- PLC, Nanotechnology
- Certified Telecom Professional (syncroute)
- Live online – Image & Video Communication, on wizIQeducation.online
- Certified Wireless Network Administrator - IGNOU
- **Certifications from –**
- **Centre for Electronics Test Engineering**
- **From NPTI and EDPTI**
- **From KELTRON and NIEIT**

Certifications for CS/IT/MCA

- From Microsoft – MCP, MCITP, MCPD, MCTS, MCSA, MCDBA
- From CISCO – CCENT, CCNA, CCDA, CCNA Security, CCNA Voice, CCNA Wireless, CCNP, CCIE
- RHCE –red hat certified engineer
- Comptia Network+
- From CMC – CJET, EDGE, Big Data, .NET, JAVA
- Language certifications like, OCJP, OCA, OCP, PHP, AJAX, HTML5, C, C#, C++, etc.





B.Tech – CS/IT

M.Tech

- Comp. Sc & Engg.
- Adv. IT with Networking & Telecommunication
- Software Engineering
- Artificial Intelligence
- Computational Linguistics
- Geo-informatics
- Bio-informatics

M.B.A.

- MBA IT Software Development
- MBA IT Networking Technology
- Telecom Management
- Computer Aided Management
- MBA Operations
- MBA Systems Management
- Logistics & Supply Chain Mgmt.

B.Tech – EC/EN/EI

M.Tech

- Aerospace Engg.
- Electrical Engineering
- Electronics Design & Tech
- Research in Electronics
- Nuclear Engg. & Tech.
- Laser Technology
- Electronics & Communications
- Power Systems
- Control Systems
- Instrumentation
- Nano technology
- Signal Processing
- Solar & Alternative Energy Technology
- Telecommunications
- VLSI
- Wireless Communication
- Embedded Technology
- Energy Systems & Pollution
- Thermal Engineering
- Bio-medical Engineering

M.B.A.

- All traditional branches of Mktg, HR, Finance, Retail and Operations.
- International Business
- Telecom Management
- Logistics & Supply Chain Management
- Business Leadership
- Family Managed Business
- Rural Dev. & Management



B.Tech (ME)

M.Tech

- Aerospace Engg.
- Petroleum Geoscience
- Mechanical Engg.
- Metallurgical Engg & Material Science
- Transportation & Infrastructure Engg
- Mechanics
- Applied Mechanics
- Ocean Engg.
- Material Science
- Industrial & Management Engg.
- Nuclear Engg. & Technology
- Manufacturing Technology
- Mineral & Bio Mineral Processing
- Mine Planning & Design
- Drilling Engg.
- Automobile Engg.
- Avionics
- Instrumentation
- Mechatronics
- Foundry & Forge Technology
- Product Design & Manufacturing
- CAD
- Applied Geology
- Geophysics
- Thermal Engg.

MBA

- All branches mentioned + Agri Business Management
- Travel & Tourism Management



B.Tech – CH / Biotech

M.Tech

- Chemical Engg
- Petroleum Geo science
- Chemical Synthesis & Analysis
- Textile Technology
- Bio Technology
- Biological Sciences & Bio Engg.
- Environmental Engg. & Mgmt.
- Fuel Engg.
- Mineral & Bio Mineral Processing
- Bio informatics
- Chemical Process Design

MBA

- Apart from all the said branches,
- Hospital Administration
- Forest Management



B.Tech - Civil

M.Tech

- Civil Engg.
- Material Science
- Transportation & Infrastructure Engg.
- Industrial & Management Engg.
- Structural Engg.
- Earthquake Engg.
- Mine Planning & Design
- Applied Geology
- Geo physics
- Architecture & Design

MBA

- Apart from the said branches,
- Infrastructure Management
- Travel & Tourism Mgmt.



For IES

- Paper 1 – General Ability Test (has two sections – GK & English – 200 marks each)
- Papers II & III – Subject based objective type, of 200 marks each
- Papers IV & V – Descriptive type on subjects, of 200 marks each
- Lastly, PI of 200 marks
- Good coaching institutes – Made Easy, ACE, Gate Forum (RAU – IAS material for GK)



For IAS

- Prelims – CSAT – Civil Services Aptitude Test
- Mains – Paper I & II (any one Indian language qualifying & English marks will be added – 300 marks each)
- Paper III – Essay in chosen medium – 200 marks
- Papers IV, V, VI, VII – General Studies – 250 marks each
- Papers VIII, & IX – two subjects – 1 paper each – 250 marks each
- Lastly, Personal Interview of 275 marks
- Vidyamandir Classes, RAU – IAS, Chanakya – IAS



For General Knowledge

- Penguin Year Book
- The 'India Yearbook' published by the Information & Broadcasting Ministry
- Current Affairs through – Civil Services Chronicle/ Competition Success Review/ Pratiyogita Darpan
- Any one of these – India Today/ Frontline/ Outlook
- A leading English Daily – The Hindu, The Observer, The Statesman, The Indian Express, TOI, HT
- **For GATE – Refer to subject specific study resources in Tata McGraw Hill, Pearson Education & Cengage Learning publishers**



For Air Force

- Eligibility – corrected vision 6/6, height requirement – 152cm for girls & 157 cm for boys, 60% throughout
- AFCAT – comprises of General English, GK, Numerical Ability & Logical Reasoning sections
- SSB – 5day test of OLQ's
- Day 1 – registration & psychometric tests like, picture perception test, word perception test, thematic appreciation test
- Day 2 & 3 – Group tasks involving field events & physical activities



- Day 4 – Interview rounds
- Day 5 – Conferencing with all the assessors
- Then a medical check-up followed by the final list of selections
- **Branch Allotment:** for flying branch – once in a lifetime PABT; for technical branch & ground duty branch – intelligence & psychometric tests
- **Final training in aeronautical engineering** – the electronics ones in signals & communication, while the mechanical ones in maintenance & servicing



For NAVY and ARMY

- TGS – technical graduate scheme for 4th yr students & UES – university entry scheme for 3rd yr students
- For Navy – only males can apply for ‘Submarine Engineering Officer’, while both males & females can apply for ‘General Engineering Service Officer’, and ‘Naval Construction Officer’
- For SSB – Final year students are called between January to March while the Pre-final year students are called between August to October
- The SSB process -



- **Day 1-** Registration followed by filling the PIQ – personal information questionnaire, followed by verbal & non-verbal reasoning tests, then Picture Story Writing & their discussion
- **Day 2** – Thematic Appreciation Test, Word Association Test, Situation Reaction Tests, Situation Decision Tests
- **Day 3 & 4** – Group Discussion, Group Planning Exercise, Progressive Group Tasks, Half Group Tasks, Group Obstacles, Individual Obstacle, Command Task, Final Group Task
- **Day 5** – Conferencing of all the assessors



For Merchant Navy

- Eligibility – 50% and above throughout
- 137 training institutes are recognized by the Directorate General of Shipping
- The training involves 3 to 4 lakhs as fee which is given back as stipend of approximately Rs.30,000/- during the training period of 18 months
- After completion of this training the candidates are absorbed at a salary between 1.2 – 1.8 lakhs per month



Pursuing Higher Education from Foreign Countries

- GMAT – Graduate Management Aptitude Test to pursue MBA from abroad (now requires 2-3 years of work experience)
- GRE – Graduate Record Examination to pursue MS from abroad
- IELTS – International English Language Testing System & TOEFL – Test of English as a Foreign Language are the necessary exams to study abroad

