

Syllabus for COAA Gondia IndiGo Cadet Pilot Program

SUBJECTS	TOPICS
<p>ENGLISH</p>	<ol style="list-style-type: none"> 1) PARTS OF SPEECH 2) ERROR ANALYSIS IN SENTENCE CONSTRUCTION 3) UNSEEN PASSAGE.
<p>MATHS</p>	<ol style="list-style-type: none"> 1) MATHEMATICAL UNITS 2) SURFACE AREA AND VOLUMES OF GEOMETRICAL FIGURES. 3) BASIC TRIGONOMETRY 4) RELATION BETWEEN SIN, COS, TAN AND THEIR INVERSES 5) QUADRATIC EQUATION 6) RATIO AND PROPORTION 7) SPEED AND DISTANCE CALCULATION 8) HCF 9) INTERSECTION OF LINES 10) DISTANCE BETWEEN POINTS 11) AREA OF TRIANGLE USING CO-ORDINATES 12) ALGEBRA OF VECTORS 13) PROBABILITY 14) DETERMINANTS 15) MATHEMATICAL SCALE CONVERSION 16) INTERSECTION OF LINES AND CIRCLES 17) GP & AP (GEOMETRIC PROGRESSION & ARITHMETICAL PROGRESSION)
<p>PHYSICS</p>	<ol style="list-style-type: none"> 1) ROTATION OF EARTH

- 2) SHAPE OF EARTH**
- 3) LATITUDE, LONGITUDE, PRIME MERIDIAN, ETC**
- 4) CHANGE OF PHASE OF SUBSTANCES**
- 5) THERMAL CONDUCTIVITY**
- 6) NATURE OF MATERIAL IN RELATION TO THERMAL AND ELECTRICAL CONDUCTIVITY**
- 7) EQUATION OF MOTION**
- 8) PRIMARY AND SECONDARY CELLS**
- 9) PROPAGATION OF LIGHT AND SOUND**
- 10) HUMIDITY AND RELATIVE HUMIDITY**
- 11) RELATIONSHIP BETWEEN TEMPERATURE, PRESSURE AND DENSITY OF GASES**
- 12) GAS LAW**
- 13) MAGNETISM**
- 14) GRAVITATION**
- 15) BASICS OF COMPUTER SCIENCE**
- 16) BASICS OF ELECTRONICS**
- 17) INSTRUMENTS FOR MEASURING TEMPERATURE, PRESSURE, DENSITY, ETC**
- 18) INTERNAL ENERGY AND SPECIFIC HEAT**
- 19) OHM'S LAW**
- 20) DEFRACTION AND REFRACTION, REFLECTION OF LIGHT**
- 21) NEWTON'S LAW OF MOTION**
- 22) VARIATION OF PRESSURE WITH HEIGHT OR DEPTH**
- 23) RIGID BODY ROTATION**
- 24) MEASUREMENT USING SCREW GUAGE, VERNIER CALLIPER ETC.**