

# Portions for the entrance examination-2017-18

## Grade 11

Mathematics	Physics	Chemistry	Biology
Quadratic Equations  Arithmetic Progressions  Circles and Tangents  Probability  Area related to circles(Only shaded region)  Surface Area and Volume  Coordinate Geometry  Heights and Distances.	<ul style="list-style-type: none"> <li>❖ Motion</li> <li>❖ Gravitation</li> <li>❖ Floatation</li> <li>❖ Work Power &amp; Energy</li> <li>❖ Sound</li> <li>❖ Natural Resources</li> <li>❖ Reflection from curved surface</li> <li>❖ Refraction from lens &amp; human eye</li> <li>❖ Electricity</li> </ul>	<ul style="list-style-type: none"> <li>❖ Atomic Structure- Fundamental particles, electronic configuration.</li> <li>❖ Writing of Chemical Formula and calculation of molecular mass</li> <li>❖ Mole Concept- Molar volume and Avogadro's number, Simple calculations based on chemical equations.</li> <li>❖ Balancing of Equations</li> <li>❖ Periodic Properties</li> <li>❖ Acids, bases and salts- Classifications, Preparations, properties and uses</li> <li>❖ Organic Chemistry- Preparation and properties of Alkanes, Alkenes and Alkyne</li> </ul>	<ul style="list-style-type: none"> <li>❖ <u>Life processes:</u> nutrition, respiration, transport, reproduction and excretion</li> <li>Genetics and Evolution               <ul style="list-style-type: none"> <li>❖ <u>Control and coordination:</u> tropic movements, plant hormones, control and coordination in animals and plants, nervous system, voluntary and involuntary, reflex action, hormones</li> </ul> </li> </ul>