



**PORTIONS OF SUMMATIVE ASSESSMENT 1  
GRADE 12 SCIENCE**

SUBJECT	PORTIONS
Chemistry	Unit 2-Solutions Unit 3-Electrochemistry Unit 4-Chemical kinetics Unit 10-Haloalkanes and haloarenes Unit 11-Alcohols,phenols and ethers
Physics	Chapter 1-Electric charges and fields Chapter 2-Electrostatic potential and capacitance Chapter 3-Current Electricity Chapter 4-Moving charges and magnetism Chapter 5-Magnetism and matter Chapter 6-Electromagnetic Induction Chapter 7-Alternating Current
Biology	Chapter 2 - Sexual Reproduction in Flowering plants. Chapter 3 - Human Reproduction. Chapter 4 - Reproductive Health. Chapter 5 - Principles of inheritance and variation. Chapter 6 - Molecular basis of Inheritance Chapter 7 - Evolution.
English	<p><b><u>READING</u></b>            I Factual, descriptive or literary passage            II Case-based passage (with verbal/ visual input- statistical data, chart etc.)</p> <p><b><u>WRITING</u></b></p> <ol style="list-style-type: none"> <li>1. Article writing</li> <li>2. Invitation (Formal &amp; Informal)</li> <li>3. Notice writing</li> <li>4. Letter to the editor</li> <li>5. Job Application</li> </ol> <p><b><u>LITERATURE</u></b></p> <p><b><u>FLAMINGO</u></b></p> <ol style="list-style-type: none"> <li>1. The last lesson</li> <li>2. Lost spring</li> <li>3. Deep Water</li> <li>4. Rattrap</li> </ol>

	<p><b><u>POEMS</u></b></p> <ol style="list-style-type: none"> <li>1. My mother at sixty - six</li> <li>2. Keeping Quiet</li> <li>3. A Thing of Beauty</li> </ol> <p><b><u>VISTAS</u></b></p> <ol style="list-style-type: none"> <li>1. The Third level</li> <li>2. The Tiger King</li> <li>3. Journey to the end of the earth</li> <li>4. Enemy</li> </ol>
<p>Math</p>	<p>Chapter 1: Relations and Functions  Chapter 2: Inverse Trigonometric Functions  Chapter 3: Matrices  Chapter 4: Determinants  Chapter 5: Continuity and Differentiability  Chapter 6: Applications of Derivatives  Chapter 7: Integrals</p>
<p>IP</p>	<p><b>Unit 1: Data Handling using Pandas -I</b>  Introduction to Python libraries- Pandas, Matplotlib.  Data structures in Pandas - Series and Data Frames.  Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing.</p> <p>Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files;  display; iteration; Operations on rows and columns: add, select, delete, rename;  Head and  Tail functions; Indexing using Labels, Boolean Indexing; Importing/Exporting  Data between CSV files and Data Frames.  Data Visualization  Purpose of plotting; drawing and saving following types of plots using Matplotlib  – line  plot, bar graph, histogram Customizing plots: adding label, title, and legend in  plots.</p> <p><b>Unit 2: Database Query using SQL</b>  Math functions: POWER (), ROUND (), MOD ().  Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID  ()/SUBSTRING()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (),  LTRIM (), RTRIM (), TRIM ().  Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (),  DAY (),  DAYNAME ().  Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using  COUNT (*).  Querying and manipulating data using Group by, Having, Order by. Working with  two tables using equi-join</p> <p><b>Unit 4: Societal Impacts</b></p>

	<p>Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS),  cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act.  E-waste: hazards and management.  Awareness about health concerns related to the usage of technology.</p>
Arabic	<p>Chapters:</p> <p style="text-align: right;">1. معارض الكتاب  2. معرض إكسبو 2020</p> <p><b>Reading comprehension</b>  <b>Vocabulary</b>-singular and plural, opposites (المفرد والجمع و العكس)  <b>Writings:</b>  picture description  creative writings  Sentence making  Translation to english  <b>Grammar:</b></p> <p style="text-align: right;">أنواع الجمل (جمل إسمية و جمل فعلية)  أسماء الموصول</p>
MSCS	<p><b>Unit 1 : Ethics in Real Life</b>  Lesson 1 : What is corruption and in what areas does it take place?  Lesson 2 : Why does corruption occur?  <b>Unit 2 : Managing Real-World Finances</b>  Lesson 1 : What does it mean to be a Smart Consumer’?  Lesson 5 : What are the moral questions surrounding financial management?  Lesson 6 : How does the financial system work and what role does the government have in regulating the financial system?  <b>Unit 3 : Globalization</b>  Lesson 2 : The economic aspect of globalization.  Lesson 3 : The sociological aspect of globalization.  Lesson 4 : The cultural aspect of globalization.</p>
Islamic	<p>UNIT1-LESSON1: Protecting society against Moral crimes (Surah Nur)  UNIT2-LESSON1: Slander against Aisha (R.A) and Moral Lesson  UNIT3-LESSON2: Prophetic Methodology in healthcare  UNIT4-LESSON1: Marriage is a path to chastity  UNIT5-LESSON2: Tolerance towards people of different faith</p>