**Answer 1:**

There are three types of operators:

* Arithmetic Operators
* Equality and Relational Operators
* Logical Operators

**Arithmetic Operators:**

Basic Operators used for addition, subtraction, multiplication etc. For example: **+**, **-**, **\***, **/**, **~**, **%**, **++**, **--**

**Equality and Relational Operators:**

These operators are used for comparison between two operands. For example: **<**, **>**, **<=**, **>=**, **==**, **!=**

**Logical Operators:**

These operators are used for applying logic in conditional statements for example: **&&**, **||**, **!**

**Answer 4:**

?? also known as **Null Coalescing Operator** is used for checking either a variable is present or not for example if **x** is a variable and you don’t know that will it be present in code or not you can print it as **x ?? 0** so code will print 0 if x is not present, it’s a shorthand for **isset(x) ? x : 0** .

? is used in ternary. It is used as

**condition ? statement to run if condition true : statement to run if condition false**

**Answer 5:**

Following are the data types supported in dart:

* int – Eg: any natural number (1, 4, 8)
* double – Eg: any decimal number (1.2, 4.5, 67.78)
* num – Eg: could store both int or double (1, 2, 2.5, 5.6)
* String – Eg: any sequence of character written between either single or double character (‘Ali’, ‘123’, ‘Karachi’)
* bool – Eg it can store either true or false
* List - List is similar to an array, which is the ordered collection of the objects.
* Map - A map is a collection of key/value pairs. The value is retrieved from a map with its associated key. Maps are also called dictionaries. A map literal consists of a pair of curly brackes, in which we specify the key/value pairs. The pairs are separated by comma. The key is separated from the value by colon.

**Answer 9:**

**Legal Variables:**

* firstVariable
* second\_variable
* Third\_Variable
* FOURTHVARIABLE
* FifthVariable

**Illegal Variables:**

* 1stVariable
* 2nd-varibale
* Third&Variable
* Fourth[Variable
* Fifth:Variable

**Answer 13:**

**Methods Of List:**

* getRange
* ToSet
* subList
* ToList
* Where

**Methods Of String:**

* Substring
* compareTo
* contains
* padLeft
* split