3055 BA SANGAM COLLEGE
PH: 6674003/9264117 E-mail: basangam@connect.com.fj

WORKSHEET 17

School: Ba Sangam College **Year / Level: 11**
Subject: Computer Studies **Name of Student**: _____

Strand	3 – Programming
Sub strand	3.1 Programming
Content Learning Outcome	Describe generation of programming language

4. Problem-Oriented Languages: The Fourth Generation

Problem-oriented languages, also known as very high level languages, require little special training on the part of the user. Unlike general-purpose- languages, problem-oriented languages are designed to solve specific problems. This group also includes query languages and application generators:

• *Query languages:* Query languages enable nonprogrammers to use certain easily understood commands to search and generate reports from a database. An example is the commands used on an airline reservations system by clerks needing flight information.

• *Application generators:* An application generator contains a number of modules-logically related program statements - that have been pre-programmed to accomplish various tasks. An example would be a module that calculates over-time pay.

5. Natural Languages: The Fifth Generation

Natural languages are still being developed. They are designed to give people a more human (―natural‖) connection with computers. The languages are human languages: English, French, Japanese, or whatever.

The five generations of programming languages are summarized as follows:

PROGRAMMING GENERATIONS

GENERATION	NAME	SAMPLE STATEMENT
First	Machine	10010001
Second	Assembly	ADD 210(8, 13),O2B(4, 7)
Third	Procedural	Overtime: = 0
Fourth	Problem	FIND NAME = JONES‖
Fifth	Natural	IF patient is dizzy, THEN check temperature and blood pressure

ACTIVITY

Short Answer

1. How is an interpreter different from a compiler? (2marks)

_____
_____
_____
_____

2. What is the characteristic of the 5th language? (2marks)

_____
_____
_____
_____

Fill in the blanks (5 marks)

1. _____language is the only language that a computer understands
2. Assembly language is regarded as the _____generation language
3. A program converted into machine language by a translator is called _____
4. An _____ converts a high-level language program into machine language line by line
5. _____is an example of 5th generation language

True or False (4marks)

1. A program is a set of instruction _____
2. The development of computer language is classified into two categories _____
3. Assembly language consist of binary numbers i.e 0 and 1 _____
4. Machine language uses simple English words and phrases _____