

Mizpah Christian School - April Test 2022 - Class 7

A) Fill in the blanks (1x6=6)

- 1) The ____ number system has the base 8
- 2) The ____ number system is used in digital computers and devices
- 3) ____ number is either 0 or 1
- 4) ____ is an example of keyword in Python
- 5) ____ is an example of Arithmetic operator
- 6) ____ is a detailed set of instructions, when executed sequentially solves a problem

B) Questions and Answers (2x5=10)

- 1) Convert decimal (35) to binary
- 2) Convert decimal (245) to binary
- 3) Convert Binary (01110) to decimal number
- 4) Give two characteristics of Hexadecimal number system
- 5) Name two data types that python uses

C) Long Questions Answers (3x3=9)

- 1) Explain any 3 types of number systems
- 2) Create a calculator program / functions that does arithmetic operations : Addition, Subtraction, Multiplication
- 3) Write an Algorithm for finding **area of a Circle of radius r.**

Inputs to the algorithm:

Radius r of the Circle.

Expected output:

Area of the Circle

Area of circle = $3.14 * r * r$