

## Mizpah Christian School - April Test 2022 - Class 8

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### A) Fill in the blanks (1x5=5)

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- 1) \_\_\_ is an example of arithmetic operator in python
- 2) \_\_\_ may contain upper-case and lowercase letters but can not begin with a digit
- 3) \_\_\_ and \_\_\_ are two forms of algorithms
- 4) \_\_\_ refers to binary decision based on some condition.

### B) Questions and Answers ( 2x4=8)

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- 1) Convert Octal number 2705 to Binary, Decimal
- 2) Convert the following hexadecimal number to their decimal equivalents
  - a) C
  - b) 9F
- 3) Convert the following decimal numbers to their hexadecimal equivalents
  - a) 80
  - b) 2560
- 4) Convert the following decimal numbers to binary equivalents
  - a) 64
  - b) 128

### C) Long Questions Answers ( 3x4=12)

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- 1) What are the different steps followed to develop an algorithm
- 2) Write an algorithm to read two numbers and find their sum.  
Inputs to the algorithm  
First num1.  
Second num2.  
Expected output:  
Sum of the two numbers.
- 3) Write algorithm to find the greater number between two numbers
- 4) Predict the data types of the following -
  - a) var1 = 10
  - b) var 2 = 1
  - c) var3 = 'mizpah'