

TJ [NAPS SEC GEN]

CSC 102 TEST SOLUTIONS BY TJ

(1a) Algorithm are series of steps to solve a problem -

while;

flowchart is the graphical representation of series of steps to solve a problem.

(1b) BASIC CODE :

10 CLS

20 INPUT "Kg Price of Mango = "; mangoes

30 INPUT "Kg Price of Apple = "; apples

40 INPUT "Kg price of grape = "; grapes

50 LET TOTALPRICE = 20 * mangoes + 10 * apples +
5 * grapes

60 PRINT "total price = "; TOTALPRICE; "Alaira"

70 END

(2b) four item found in VB Development Environment:

(1) Tool box

(2) Properties Window

(3) Project Window

(4) Blank form

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(2a) i) Algorithm

10. Start

20. Input r

30. $V = 3/4 * (3.142) * r^3$

40. Output V

50. Stop

ii) BASIC CODE:

10. CLS

20. INPUT "Enter radius"; r

30. LET $V = 3/4 * 3.142 * r^3$

40. PRINT "Volume of the sphere ="; V

50. END

Additional TEST QUESTIONS SOLUTIONS

By TJ:

(1b) Give four controls found on VB tool box?

Ans: (1) Message box

(2) Picture box

(3) Command button

(4) Label

(29) Define looping and give 4 examples of looping statement?

Ans; Looping is the execution of statement or group of statements multiple times.

Example of looping statement are;

- (1) For --- Next Loop
- (2) DO --- Loop
- (3) While --- Loop
- (4) Do --- while Loop

(19) The formula for the perimeter of a rectangle is given below, write an algorithm and a program in BASIC to compute the perimeter $P = 2 * (L + b)$

Solution:

<u>Algorithm</u>	<u>BASIC</u>
10. Start	CLS
20. INPUT L, b	INPUT "Enter length = "; L
30. $P = 2 * (L + b)$	INPUT "Enter breadth = "; b
40. Output P	LET P = 2 * (L + b)
50. END	PRINT "perimeter = "; P
	END