

Q19. Which of the following is the correct combination of various addressing modes? Here, X_1 is an address which is stored in a program counter. X_2 is an address part of an instruction which is addressed by X_1 . X_3 is an address in which an operand needed to execute an instruction is stored. X_4 is a value in an index register. (X_2) means the contents of location X_2 .

Addressing mode	Direct	Indirect	PC (Program Counter)-relative	Indexed
a)	$X_3 = X_2$	$X_3 = X_2 + X_4$	$X_3 = (X_2)$	$X_3 = X_1 + X_2$
b)	$X_3 = X_2$	$X_3 = (X_2)$	$X_3 = X_1 + X_2$	$X_3 = X_2 + X_4$
c)	$X_3 = X_2$	$X_3 = (X_2)$	$X_3 = X_2 + X_4$	$X_3 = X_1 + X_2$
d)	$X_3 = (X_2)$	$X_3 = X_2$	$X_3 = X_1 + X_2$	$X_3 = X_2 + X_4$