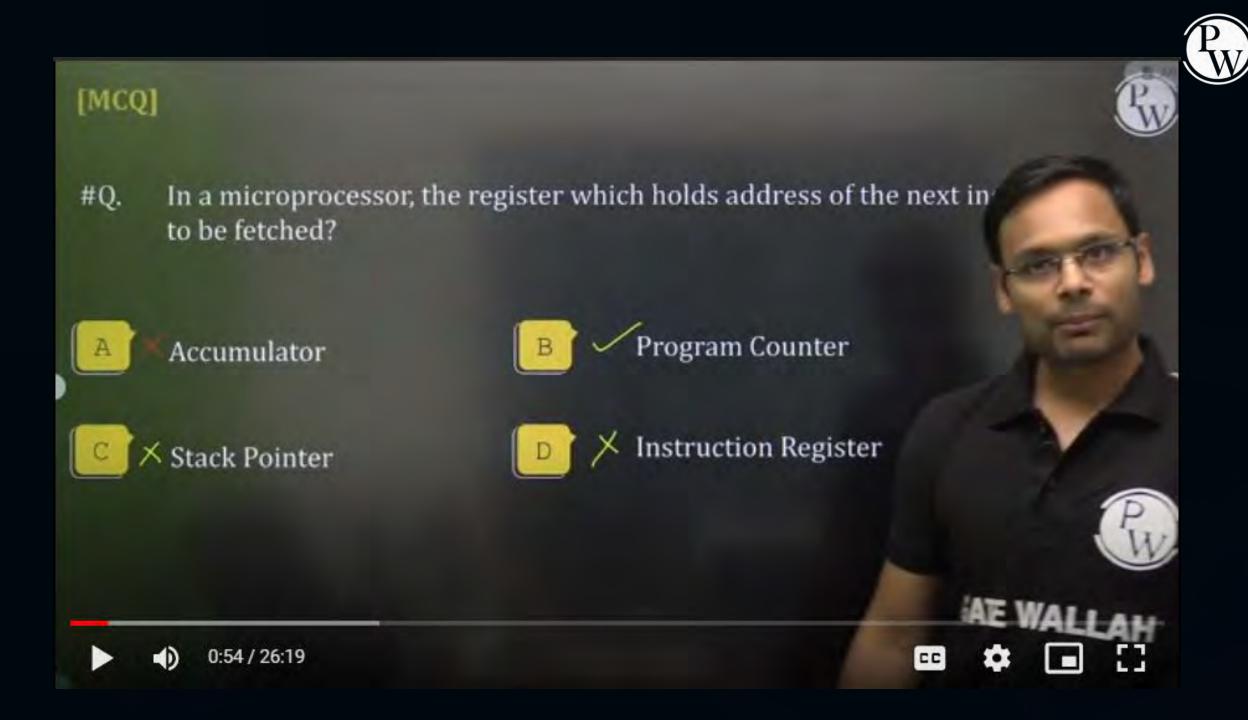
## CS & IT ENGINEERING

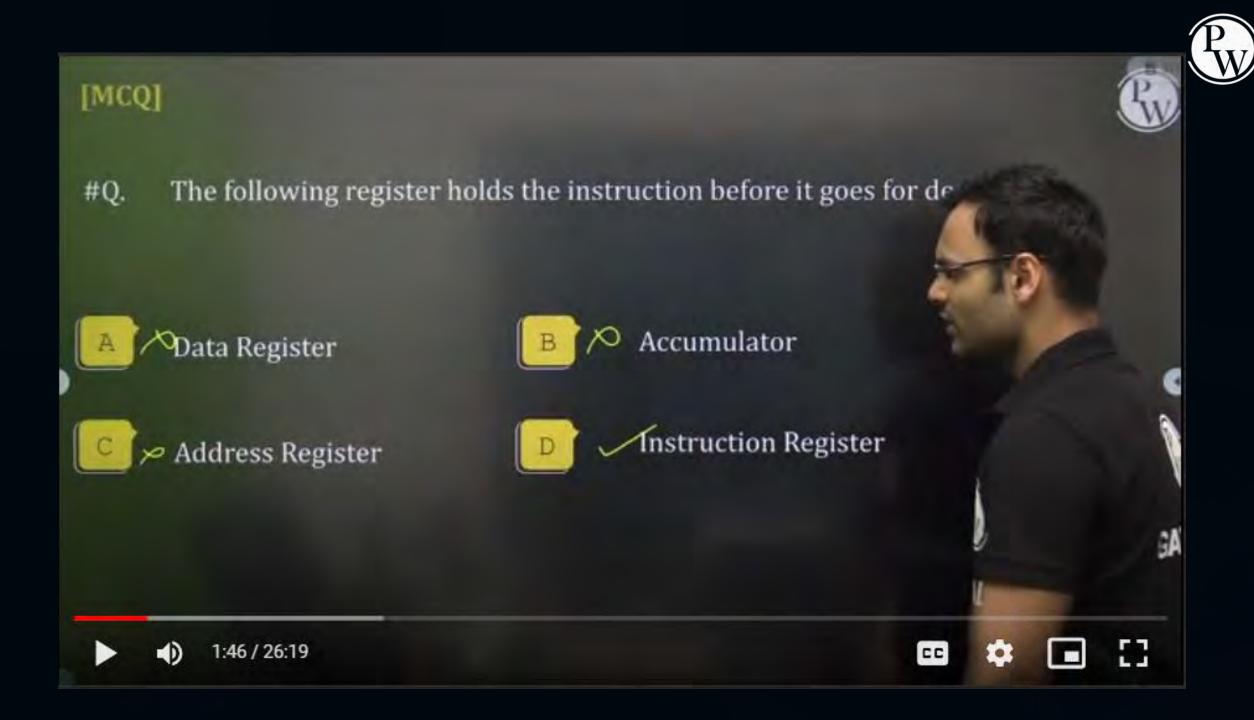
Computer Organization Architecture

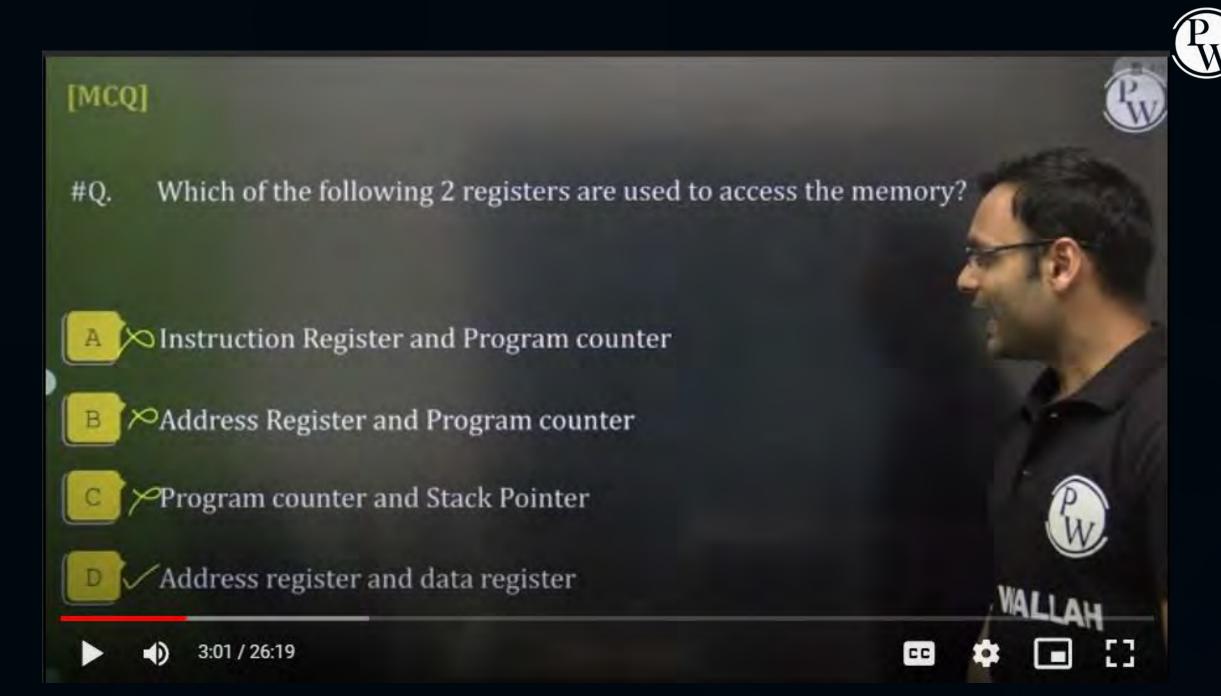
**Basic Of COA** 

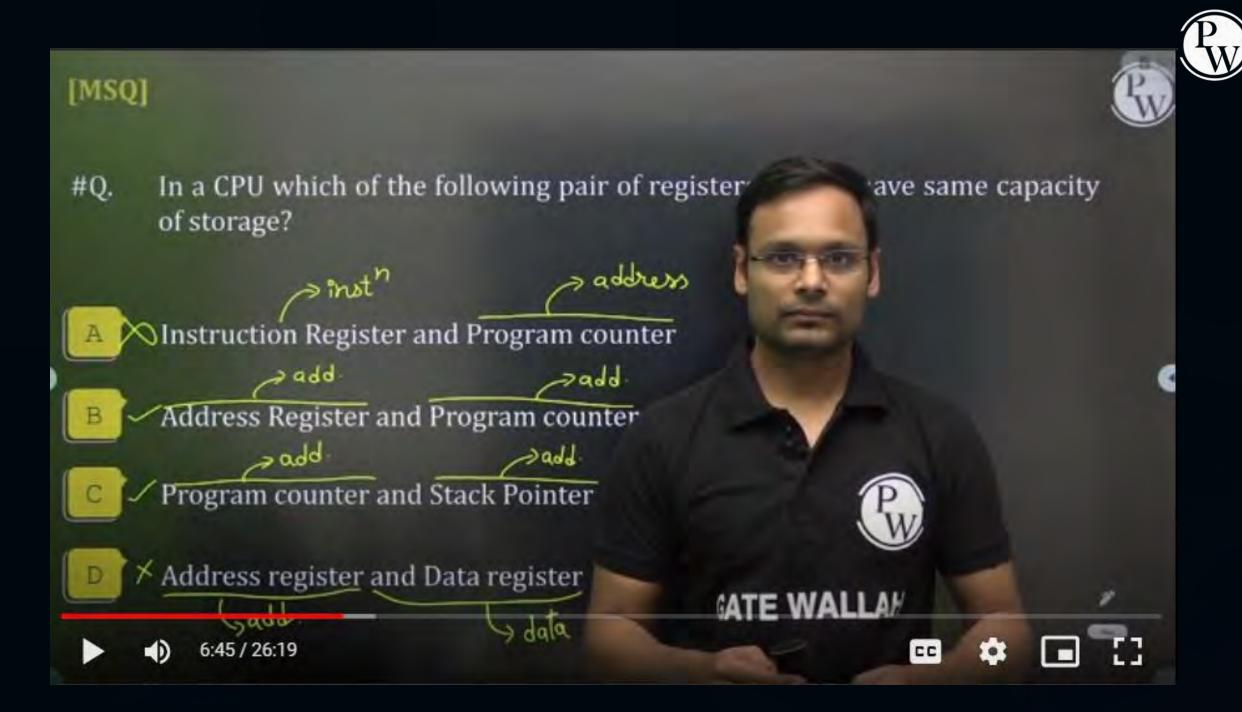


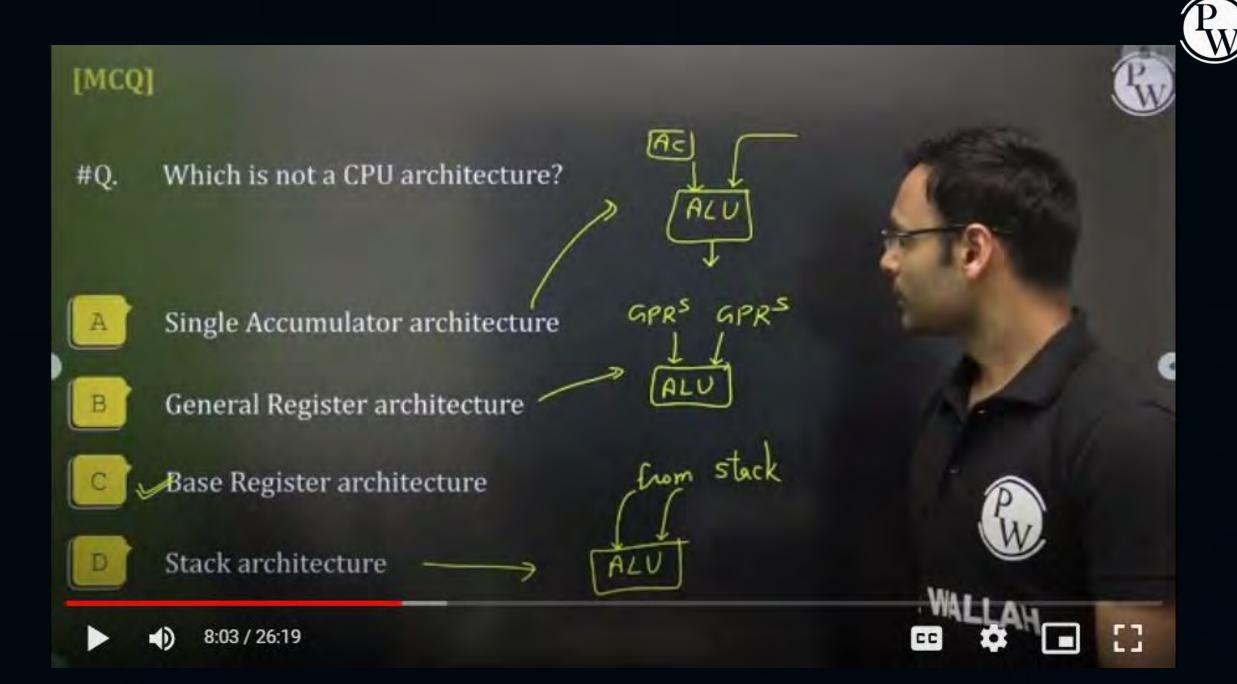
**DPP- 01** Disussion notes

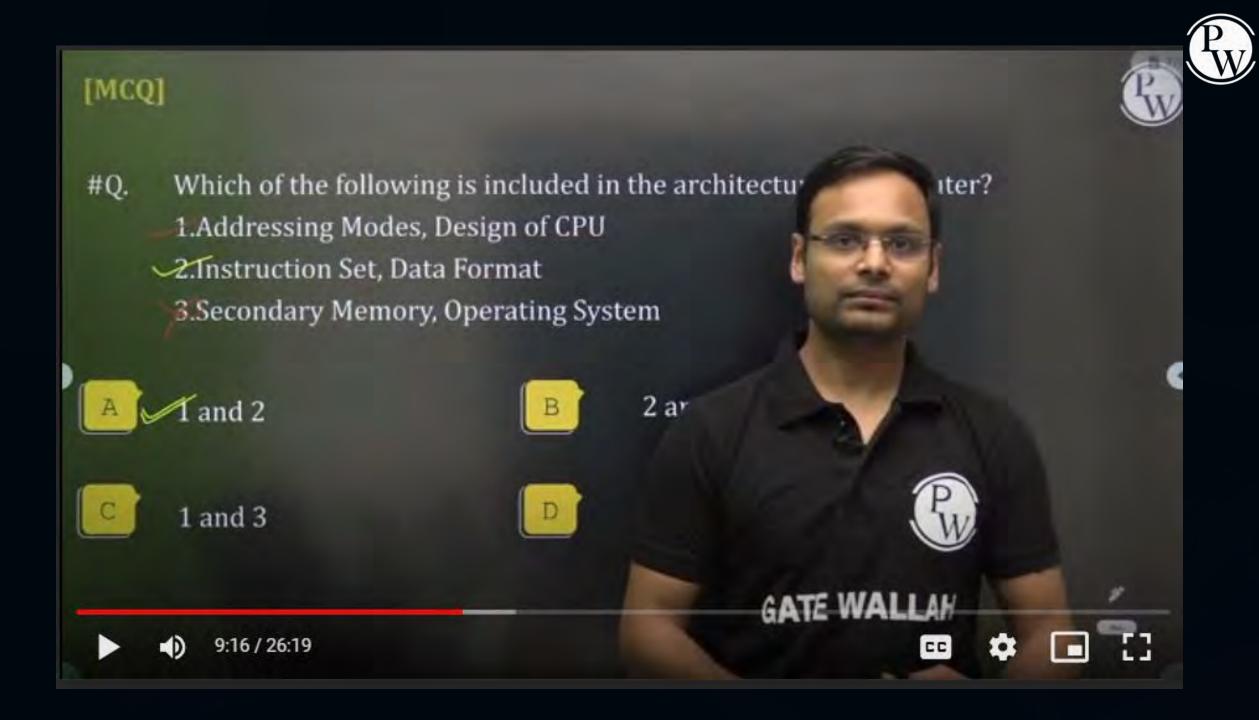


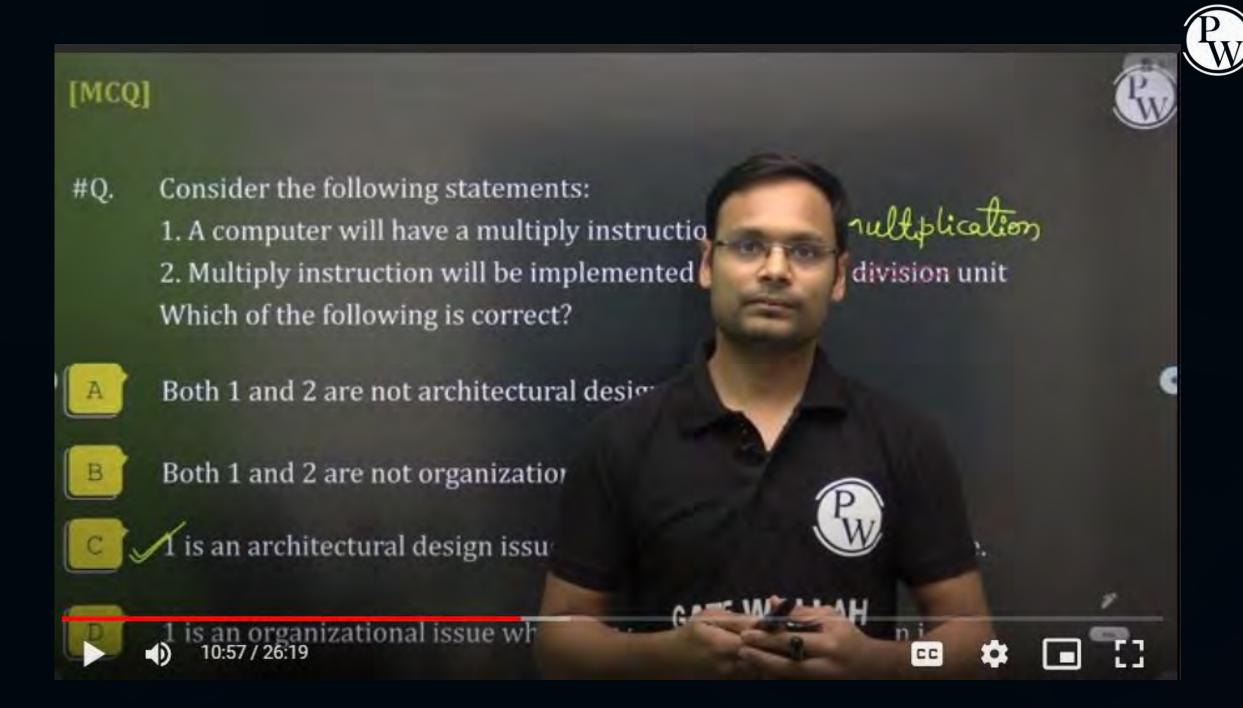














## [MCQ]

$$\Rightarrow \frac{24}{8} = 3 \text{ bytes}$$

- #Q. A CPU has 24-bits instruction. A program starts at address 6° mal).

  Which of the following is a legal program counter value?
- A 700
- 900

800



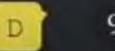
600

603

工1

12

13

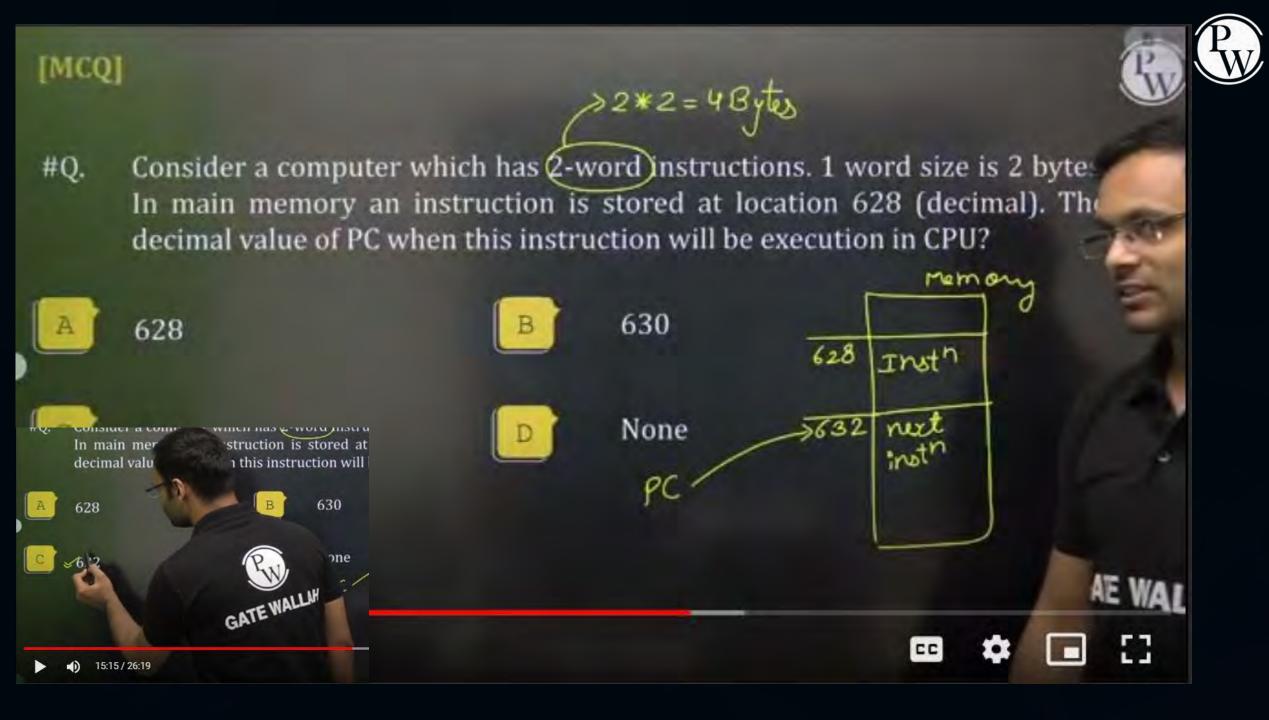


950 609









## [NAT]



#Q. Consider the following program segment. Here R1, R2 and R3 are the general-purpose register. Assume that the content of memory location 3000 is 50 and location 2000 is 25. Content of register R2 is 12. All numbers are in decimal. After the execution of this program the value of memory location 2000 is?

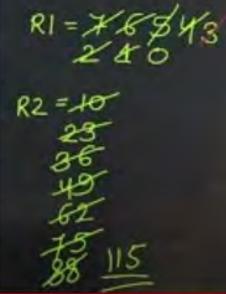
Instructions	Operations
MOV R1, #15	R1 ← #15
MOV (2000), R1	M[2000] ← R1
ADD R2, (2000)	R2 ← R2 + M[2000]
MOV(3000), R2	M[3000] ← R2
MOV R3, R1	R3 ← R1
ADD R3, (3000)	B3 - B3 - W[3000]
M(18:29/26:19 R3	M[2000]← R3

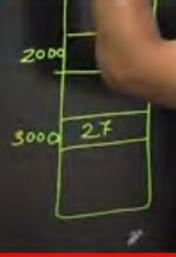
R1 = 15			
R2 -1227	2000	25/	(42)
R3 = 15 42			T
Ans=42	3000	5027	



#Q. Consider the following program segment. Here R1 and R2 are the gene purpose register. Assume that the content of memory location 3000 is and location 2000 is 13. Content of register R2 is 10. All numbers are decimal. After the execution of this program the value of R2 is?

	Instructions	Operations
	MOV R1, #7	R1 ← #7
X:	DEC R1	R1 ← R1 – 1
	JNZ Y	Jump to Y on Non-Zero
	ADD R2, (3000)	R2← R2 + M[3000]
	JMP Z	Jump to Z
Y:	ADD R2, (2000)	R2 - R2 + M[2000]
_	JMP X	jump to X
Z 26:12 / 26:19		Stop





2m



## THANK - YOU