

Mehboob-ul-Hassan

Question: 1

(a)

Let suppose

Total match played = x

% of won matches = 60% of $x = \frac{60x}{100}$

No. of match lost = 24 out of x

Total - won = lost

$$x - \frac{6x}{10} = 24$$

$$\frac{10x - 6x}{10} = 24$$

$$4x = 240$$

$$\boxed{x = 60} \text{ Ans}$$

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(b)

Using formula

$\frac{\text{Men} \times \text{days}}{\text{work done}}$

$$\frac{M_1 \times D_1}{W_1} = \frac{M_2 \times D_2}{W_2}$$

$$\frac{30 \times 1\phi}{4\phi} = \frac{80 \times x}{32\phi}$$

$$\frac{30}{4} = \frac{x}{4}$$

$$4x = 120$$

$$x = 30 \quad \text{Ans}$$

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(C) Suppose

$$1^{\text{st}} = x, \quad 2^{\text{nd}} = y, \quad 3^{\text{rd}} = z$$

As per first condition

$$y = \frac{1}{4}z \Rightarrow z = 4y \quad \text{--- (i)}$$

now

$$x + \frac{1}{4}z + z = \$370$$

$$x + \frac{5}{4}z = 370 \quad \text{--- (ii)}$$

as per second condition

$$\frac{3}{5} = \frac{x}{z}$$

$$3z = 5x$$

$$x = \frac{3z}{5} \quad \text{--- (iii)}$$

Putting into equation (ii)

$$\frac{3}{5}z + \frac{5}{4}z = 370$$

$$\frac{12 + 25}{20}z = 370$$

$$\frac{37}{20}z = 370$$

$$z = \frac{370 \times 20}{37}$$

$$z = 200$$

Putting into (iii) for x

$$x = \frac{3}{5} \times 200$$

$$x = 120$$

Putting value of z into (i)

$$y = \frac{1}{4} z$$

$$y = \frac{1}{4} \times 200$$

$$y = 50$$

Hence Proved

$$x + y + z = 370$$

$$120 + 50 + 200 = 370$$

(d) Let suppose

$$x + x_1 + x_2 + x_3 + x_4 + x_5 = 20$$

Then $x + x_1 + x_2 + x_3 + x_4 + x_5 = 120$
for 5 number

$$x + x_1 + x_2 + x_3 + x_4 = 15$$

$$\text{So } x + x_1 + x_2 + x_3 + x_4 = 75$$

which means

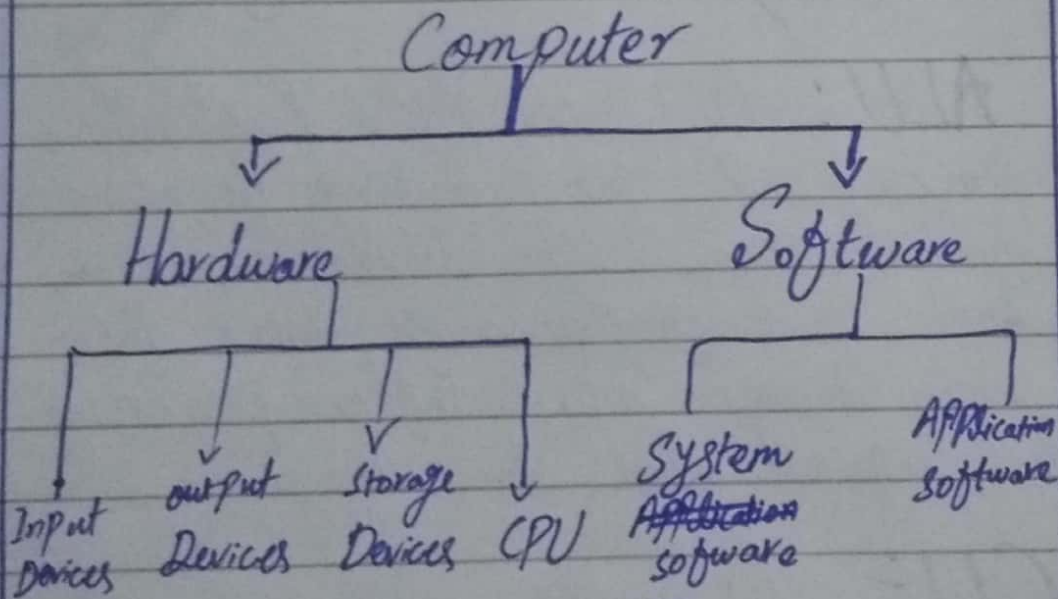
$$120 - 75 = 45$$

So 45 is the number, which if removed will result 15 as average.

Question: 2

Computer Buses

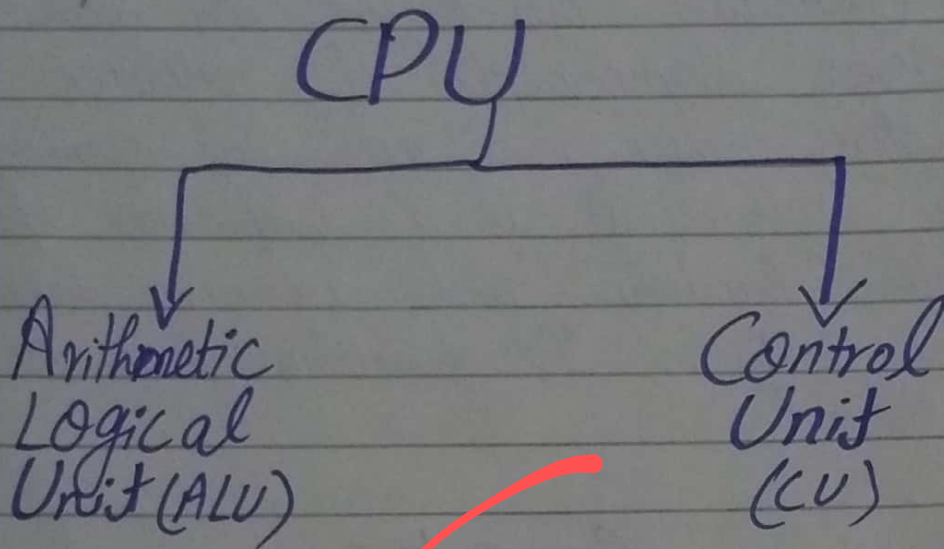
Computer buses are the internal external components of computer system, which are used for operating as system. It is a combination of both hardware and software device and helps in the functionality of the system.



CPU as Brain

CPU is basically a tiny silicon piece, consists of tiny millions, microscopically

Connected components. It storage the memory at specific location. Its overall working consists of two major components.



ALU: ALU in CPU basically process all the working. It does multiplication, division, subtraction, addition, logic and comparison. It takes data from storage and after processing it, again sent to storage.

CU: It acts like a supervisor. It watch the overall functioning by ensuring each process are being done in a desired fashion.

These arguments of ALU and CU depicts the human like

working of Computer system by placing CPU as the brain of Computer system.

Artificial Intelligence

A system of software and hardware, that acts, thinks and work like human.

Explanation

AI basically a human design most advanced form of computer, which once installed with the pre-requisite, will perform the require task respectively the interference of third party, after the full operational functioning of required AI based machine, is not essential as in the case of computer. However, it has some or more like some components of hardware and software. Some people depicts its as a danger for human because of its capacity to think and

perform task like human.

Can it Surpass human?

The most essential component for AI to operate is the human brain behind its function as well as operation. So, in case of any danger in near future, possibilities of demotion of such technologies are available.

On the other hand, if we talk about AI being threat for hum labor force, then it is possible because, it is now replacing the human in industries, in education, in military as well as in Restaurant.

However, the onus lies upon handlers to ensure the opportunities for human as well. Because, no doubts such technology is beneficial for human but not at larger extent.

