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Test : GISA (3)

QNo 1: (a)

Suppose total matches = x
Team had won matches = $\frac{60}{100}x$

Team had lost matches = 24

Total number of matches = $\frac{60}{100}x + 24$

$$x = \frac{60}{100}x + 24$$

$$x = \frac{60x + 2400}{100}$$

$$100x = 60x + 2400$$

$$100x - 60x = 2400$$

$$40x = 2400$$

$$x = \frac{2400}{40}$$

$$x = 60$$

total matches played = 60

(b)

persons	Sugar	Days
↓ 30	↑ 40kg	10 ↑
↓ 80	↑ 320kg	x ↑

$$\frac{x}{10} = \frac{320}{40} \times \frac{30}{80}$$

$$\frac{x}{10} = 3$$

$$x = 3 \times 10$$

$$x = 30$$

$$\boxed{\text{days} = 30}$$

(d)

Mean of 6 numbers = 20

$$\text{mean} = \frac{\text{Sum of numbers}}{\text{No of observations}}$$

$$20 = \frac{a+b+c+d+e+f}{6}$$

$$a+b+c+d+e+f = 120 \text{ --- (i)}$$

A Mean of 5 numbers = 15

$$15 = \frac{a+b+c+d+e}{5}$$

$$75 = a+b+c+d+e$$

$$a+b+c+d+e = 75 \text{ --- (ii)}$$

put value of (a+b+c+d+e) from equation (ii) in equation (i)

$$a+b+c+d+e+f = 120$$

$$75 + f = 120$$

$$= 120 - 75$$

$$f = 45$$

So the number which was removed was $\boxed{45}$

$$\begin{array}{r} 120 \\ - 75 \\ \hline 45 \end{array}$$

Q No: (a)

Computer buses:

Computer buses are data lines used to communicate data among different components of computers. One line of data can contain 1 bit data. There are different types of buses:

- (i) Internal buses
- (ii) External buses
- (iii) System buses
- (iv) Data buses
- (v) Address buses
- (vi) Control buses

(i) Internal buses:

Internal buses connect internal components of computer such as CPU, motherboard and memory.

(ii) External buses:

External buses connect external components of computer, such as printer etc.

(iii) System buses:

System buses connect the main components of computer such as motherboard and memory etc.

(iv) Data buses:

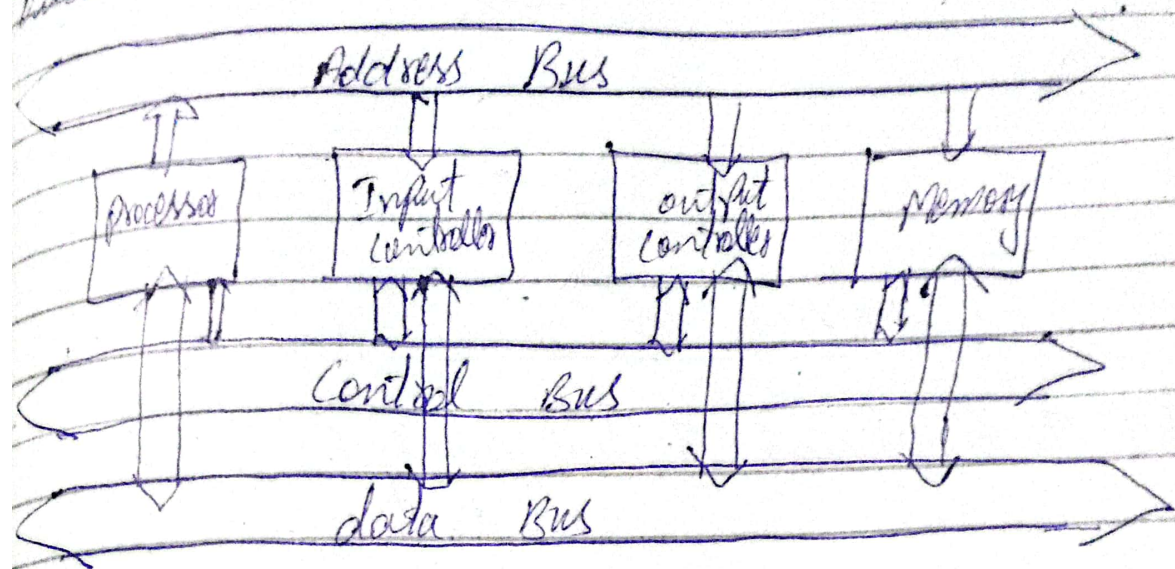
Data buses are used to transfer data to and from memory and from CPU. Upgraded systems contain data upto 64 gigabytes.

(v) Address buses:

Address buses transfer data among different devices.

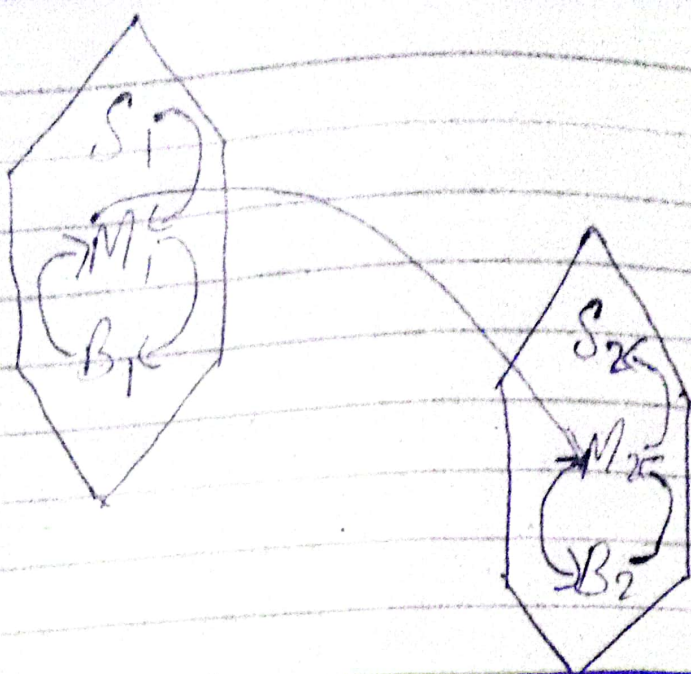
control buses:

Control buses are used by central processing unit, CPU used to transmit different control signals by using control buses.



(b) Working of mobile phone:

Mobile phone work by the flow of electromagnetic waves. Electromagnetic waves do not need any medium. They are having high wave length. When one person (Server 1) dial numbers and call is connected. The signals transfer from Server 1 to Mate 1; Mate 1 transfers signals to basic station 1. Basic station 1 sent signals to Mate 1 after processing. Then Mate 1 sent signals to Mate 2 and Mate 2 sent signals to basic station 2. After processing basic station 2 transfer electrical signals to sound and signals at last reached to Server 2. In this way mobile phone ~~work~~ has worked.



Working of mobile

(d) Artificial Intelligence:

Artificial Intelligence is a technology to use human like abilities in machines. Actually Artificial Intelligence are machines having the capability of problem solving, logistics, graphics etc. The term was first introduced in 1956 but in contemporary era it is use with its advanced applications. It is true that people use AI for notorious purpose but it is humans who can use AI for positive or negative purpose.

AI in different sphere of life:

Following are the some benefits of AI:

1. AI is use in medical profession for assisting doctors in diagnosing different diseases.
2. AI has brought revolution in educational sector by effective research.
3. AI has been used by security purposes like in detecting facial expression.

AI also use in Finance as 80% CFO's
prefer AI technology in their banks.
AI make online shopping easy and
help Amazon, Alibaba through the
application of chatbot.
The AI algorithms, chatbot is also
used for job recruitment purpose.

(b) Types of computers:

1: Supercomputer:

Super computers are
fastest and biggest computers. They can
access huge amount of data. It is used
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