Mid-term paper



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Computer fundamentals

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Question No "1"

Role of compter and its importance:-

Computer are now a fact of life. Computer have created a very effective impormation system to help streamline the management of an organization. This make it a much needed daily for every business, banking, government, use also home to control safety and control if air conditioning and lighting - The use of computer is to provide connection to the national data bank it can use for storing that computers have become machine of information in our society.

Beig a computor engineer computer uses:-

Being a Computer engineer, I say that a alot of industry benefit From computer and the development of a human machine that "robot" industrial production, for enample a lot of Computers process data collected for employees, Customers, Sales, product informmation, production schedules, and so on- so computer used to control the production process

Advancement in computer Field 19th 20th Century: In the venturing of the events in 20th Century, it will be convenient to Separate the years before 1945 from those that followed. The years 19000 to bould were dominated by the two would were Many important invention of 20th century originated there. There were no quel and gower foundamental inno vations before 19th Century object there were Several significient development in leakingular that had originated in the

RAM

1) Valatile memory required power to hold data. 2) Data in RAM is has specific addres and cpu can read data address.

3) Data is first worded in RAM for processing.

1) RAM is installed the mother boil in the memory

S) Have Pins to Store data.

Cache memory

DVRYy fast mamory hold common and Yelent Store data

the data by decrossing burden on RAM

3) More cache made up the computer fast

(a) Cache is divided into three categories Cache 1 - recently

instruction

(ache 3 - Possible upcoming.

Registers

1) Alu and FPU have private memory Called register

2 Enhance the Speed of 2) Small amount but Super Zast.

> 3) Asio called accamulator -

4) Handle recent data and then send the data to data cacha.

s) store set of instruction which Cachez - upcoming is executed at microprosed.

Haddsk

1) Hardisk is germanent data storing device.

2) Very Slow as company to RAM and cache.

3 But large amount of data and instruction are stored by hardisk.

4) Three types of hardisk i) Magnetic devices ii) Optical devices

iii) solid-state devices

& without storge device:

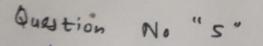
The compater will not gestorm on important formation. such as booking and loading data and instruction for processing. And the operating will not lead without RAM ir hardisk.

2	1201
2	900-1
2	450-0
2	225 - 0
2	112-1
2	56-0
2	28-0
2	14 -0
2	7-0
2	3 - 1
	1 - 1

(1801) 10 = (2110201)3

5	1801
5	360 - 1
5	72 - 0
5	124 - 2
	2 - 4

(1801)10 = (24201)5



To Contract Logic gates for f and g

3 = A + A' B

Table: -

A	B	A'	A+A'B
0	0	1	0
6	1	1	1
1	0	0	1
1	1	6	1

Gate : -

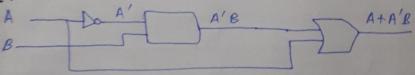
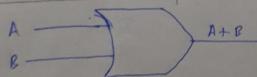


Table: -

B	A+B
6	0
1	1
0	1
11	1
	6 0 1

Gote: A



Question No "6"

Table : -

A = Temp	B= Day	C = Fan
0	D	0
0	1	0
1	0	0
1	1	1

Grates: -

