Mid Term Examination first Semester 2019-2020 by Dr. Mahmoud Yassein Shams El-Den

Question 1: Complete the following sentences. (10 Marks)

1. The RAM is stands for ……………………………and measured by ………………
2. The Processor is considered as ………………..and measured by……………
3. 542 GB=…………..Bit , 318 Byte=…………..TB
4. Software is ………………………and consists of…………., ………………,and…………………
5. The CPU is stands for ………………..and consists of …………….,………………, and …………

Solution

1. Random Access Memory, Byte
2. The brain of computer responsible for mathematical and logic operations and execution the commands, hertz.
3. 542GB=542*1024*1024*1024*8 bit   , 318Byte=318/(1024*1024*1024)
4. A collection of programs that required to make the computer work, Operating System, Application , and Language programming.
5. Central Processing Unit, ALU, MU, and CU

Question 2: Convert the following numbers to its equivalence. (10 Marks)

1. $(100010)_2 \rightarrow (----34-----)_{10}$
2. $(150)_{10} \rightarrow (-----10010110------)_2$
3. $(3D9)_{16} \rightarrow (-----1731-----)_8$
4. $(735)_8 \rightarrow (----477-------)_{10}$
5. $(325)_{10} \rightarrow (---145---)_{16}$

With all my best wishes
Dr. Mahmoud Shams

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Question 1: Complete the following sentences. **(10 Marks)**

1. The ROM is stands for …………………………and measured by ………………
2. The Internet is considered as ………………..and measured by……………
3. 532 MB=…………..Bit , 309 Bit=…………..KB
4. Hardware is ……………………….and consists of…………., ………………,and………………
5. The OS is stands for ………………..and its operates as ……………for example….., ………,…

Solution

1. Read Only Memory, Byte.
2. The collection of networks that groups over millions devices all over the world, Bit/sec.
3. 532MB=532*1024*1024*8 , 309 bit = 309/(1024*8)
4. The equipment or devices can be touched and handled, CPU, I/O unit, Storage devices.
5. Operating System, interface between the computer and user , DOS, Windows, Linux.

Question 2: Convert the following numbers to its equivalence. **(10 Marks)**

1. $(101010)_2 \rightarrow (-----42----)_{10}$
2. $(170)_{10} \rightarrow (----10101010-------)_2$
3. $(9BC)_{16} \rightarrow (------4674----)_8$
4. $(275)_8 \rightarrow (-----189------)_{10}$
5. $(385)_{10} \rightarrow (---181---)_{16}$

With all my best wishes
Dr. Mahmoud Shams