

**Question 1. Convert 101101 to base 10 or in decimal form.**

**Ans-    64 32 16 8 4 2 1**

**1 0 1 1 0 1**

$$32+0+8+4+0+1= 45$$

**Therefore 101101= 45 to the base 10.**

**Question 2 . convert 0.375<sub>10</sub> into binary form.**

**Ans-**

$$0.375 \times 2 = 0.75 = 0$$

$$0.75 \times 2 = 0.5 = 1$$

$$0.5 \times 2 = 1 = 1$$

**therefore 0.375<sub>10</sub> in decimal as 0.011**

**Question 3. convert 11.011<sub>2</sub> to decimal number.**

**Ans-**

**64 32 16 8 4 2 1**

**1 1**

$$11 = 2+1 = 3$$

$$0.011 = 0 \cdot 2^{-1} + 1 \cdot 2^{-2} + 1 \cdot 2^{-3}$$

$$= 0 + 0.25 + 0.125$$

$$= 0.375$$

therefore 11.011 in decimal as 3.375.

Question 4. convert octal no 3218 to its binary equivalent.

$$\text{Ans- } (3)_8 = 011$$

$$(2)_8 = 010$$

$$(1)_8 = 001$$

11010001

Question 5. convert 512 8 to its base 10?

$$\text{Ans- } 2 \cdot 16 = 32$$

$$1 \cdot 16 = 16$$

$$5 \cdot 16 = 80$$

$$2 + 16 + 80 = 98$$

Question 6 Convert the hexadecimal no 111 base 16 to its binary ?

$$\text{Ans- } 1 \cdot 16^0 = 1$$

$$1 \cdot 16^1 = 16$$

$$1 \cdot 16^2 = 256$$

(273) into binary 10001001

**Question 7    convert 5E6 base 16 into binary?**

**Ans-      $5 \cdot 16^0 + E \cdot 16^1 + 6 \cdot 16^2 = 1510$**

**(1510) to the base 2**

**10111100110**

**Question 8    find the num of 111 base 2 + 011 base 2**

**Ans-    1010**

**Question 9    List down 6 major components of a computer?**

**Ans-       1. Motherboard**

**2. Central processing unit (CPU)**

**3. Input Devices**

**4. Output Devices**

**5. Storage Devices**

**Question 10    What are different components of the CPU, list out 3 components?**

**Ans-    1. Control Unit**

**2. Arithmetic Logic Unit**

**3. Registers**

**Question 11     How many bits are in single bytes?**

**Ans-     There are 8 bits in single bytes.**

**Question 12     Convert one Gigabyte into megabytes?**

**Ans-     1000 megabytes**

**Question 13     Who invented the mechanical calculator known as Pascaline?**

**Ans-     Blaise Pascal**

**Question 14     in a computer which unit performs the mathematical logical operations?**

**Ans-     Central Processing Unit (CPU)**

**Question 15    Which Electronic components were used in first generation computer?**

**Ans-        Vacuum tubes**

**Question 16    The program / set of programs run-on a computer when computer boots up?**

**Ans-        The Operating system.**

**Question 17    list out 5 input devices.**

**Ans-        1. Keyboard**

**2. Mouse**

**3. Scanner**

**4. barcode reader**

**5. camera**

**Question 18    what was the first version of windows called?**

**Ans-    Microsoft windows 1.0**

**Question 19    What was the code name for windows vista?**

**Ans-        Longhorn.**

**Question 20    Write down the software that helps us to browse the internet?**

**Ans-        web browser**

**Question 21        why do cache and main memory lose their contents when the power is off?**

**Ans-        Because its more expensive than standard RAM**

**Question 22    Write abet the technology is use in CD drive?**

**Ans-        Optical technology is used in CD drives. Also a CD ROM drive used a low power lesser beam to read**

**binary data that has been encoded in the form of tiny pits on an optical disk.**

**Question 23    which type of software are MS Excel, MS Power point, ans MS Word?**

**Ans-      Application Software**

**Question 24    Which company made windows operating System?**

**Ans-            Microsoft Windows.**

**Question 25    What is the name of the first microprocessor?**

**Ans-            Intel 4004 Microprocessor**

**Question 26    what is the intel company famous for?**

**Ans-            For developing the Microprocessor**

**Question 27    which computer memory stores data for temporarily?**

**ans-      RAM is used for temporarily storage.**

**Question 28    what is the name of the set of instruction that directs a computer hardware to perform a task?**

**Ans-          The set of instruction that directs a comouter hardware to perform a task is called program or software program.**

**Question 29    which program language was used in first generation computer language?**

**Ans-          Machine language is used in 1st generation computer.**

**Question 30    which program language was used in second generation computer language?**



**Ans- Assembly language used in 2nd feneration computer.**

**Question 31 Name the first general purpose electronic computer?**

**Ans- The ENICA**

**Question 32 What is computer virus?**

**Ans- A computer virus is a type of computer program that when executed, replicates itself by modifying other computer program that is called computer virus.**

**Question 33 what is the name of the standalone malware computer program that replicates?**

**Ans- A computer worm is a standalone malware computer program that replicates itself in order to spread to other computers.**

**Question 34 how many bits in one nibble?**

**Ans- 4 bits**

**Question 35 What is name of the computers memory?**

**Ans- RAM (Random Access Memory)**

**ROM(Read Only Memory)**