

SECTION-A

Q1. Answer the following in a word or two:-

[0.5x10=5]

- 1) _____ is often called the brain of the computer.
- 2) _____ is a volatile memory unit.
- 3) A _____ is the most common example of disk drive with high storage capacity.
- 4) A hard disk drive consists of a set of _____.
- 5) The output viewed on a VDU is called a _____ copy
- 6) Microsoft Security Essentials is an example of _____
- 7) _____ virus once into the memory, keeps affecting all running executable files.
- 8) RAM stands for _____.
- 9) Count of unique symbols to represent numbers is known as _____.
- 10) A data type to store Integers(whole numbers) called as _____

Q2. Choose the correct answer

[1x5=5]

- a) Which one is not an external hardware?
 1. Motherboard
 2. Monitor
 3. Keyboard
 4. Mouse
- b) This device controls the working of a computer.
 1. VDU
 2. PCB
 3. PCI
 4. CPU
- c) Binary digits 0 and 1 represents ____ and ____ states of electricity.
 1. ON, OFF
 2. OFF, ON
 3. AC, DC
 4. ALL
- d) Find the odd one
 1. Quick Heal
 2. Creeper
 3. KasperSky
 4. McAfee
- e) Decimal Number system is also known as ____
 - 1) Base
 - 2) Denary Number System
 - 3) Radix
 - 4) Binary Number System

Q3. Define the following terms:-

[1x10=10]

- | | |
|-------------------------|-----------------|
| a. Modulation | f. motherboard |
| b. Demodulation | g. Worm |
| c. Binary Number system | h. Spyware |
| d. Radix | i. sweeper |
| e. boot sector | j. Trojan horse |

Q4. Answer the following questions:-

[2x5=10]

- Write short notes on ports and connectors.
- Difference between External HW and Internal HW.
- Difference between speaker and microphone.
- Explain Hexa-decimal number system.
- Write short notes on SMPS.

Q5. Answer the following in detail (any two) :-

[5x2=10]

- Define Virus.Explain types of Virus.
- Define Anti-virus. What anti-virus does.
- Write different WAYS TO PREVENT A COMPUTER VIRUS.

Q6. Convert the following numbers:-

[2x5=10]

- $(1111111)_2 = ()_{10}$
- $(1000001)_2 = ()_{10}$
- $(1005)_{10} = ()_2$
- $(1100)_{10} = ()_2$
- $(999)_{10} = ()_2$

SECTION-B

Q7. Write the following java statements:-

[1x5=5]

- Declare an integer variable "roll".
- Calculate sum of 23 , 40 and store in variable "s" .
- Declare double variables "amt" and "rate".
- Display your name.
- Assign square of 10 to "sq".

Q8. Rectify the following errors:-

[1x5=5]

- int x=23,b=43.5;
- double a=23
- system.out.Println("India");
- Double avg=tot/4.0;
- Sum=a+b+c

Q9. Write any four Java Program :-

[5X4=20]

- WAP to assign base =25.6cm and height=24.5cm of a triangle. Calculate and display the area($\frac{1}{2} \times \text{base} \times \text{height}$).
- WAP to assign length=30.5meter breadth=25.5meter and height=10.5meter of a cuboid. Calculate and display its volume($\text{length} \times \text{breadth} \times \text{height}$) and surface area($2 \times (\text{length} \times \text{breadth}) + (\text{breadth} \times \text{height}) + (\text{length} \times \text{height})$).
- WAP to assign temperature in Fahrenheit $F=34^\circ$, Convert and print temperature in Celsius.
- WAP to assign value of a=12, b=8and c=5. Print the result of the equation $r=5a^3+3b^2+4c$.
- WAP to assign radius=24.5cm and height=12cm of a cylinder. Calculate and print volume($\pi r^2 h$) and surface area($2\pi r(r+h)$).