Sheet3: Displays & Printers

Question1 (mcq)

1. **Examples of computer monitors (d)**

a. LCD

b. LED

c. CRT

d. All of the above

2. **17 inch computer monitor has diagonal length of (b)**

a. 30 cm

b. 42 cm

c. 60 cm

d. 80 cm

3. **Examples of computer monitor interfaces (d)**

a. VGA

b. SVGA

c. HDMI

d. All of the above

4. **HDMI means (a)**

a. High definition multimedia interface

b. High definition Memory Interface

c. High data multimedia interface

d. High data memory interface

5. **HDMI cables transmit   (c)**

6. Video data

7. Audio data

8. Video and audio data

9.   None of the above

6. **The higher number of computer monitor pixels gives us a __ image (a)**

   a- Better
   b- Worst
   c- Smaller
   d- None of the above

7. **Examples of computer printers(d)**

   a- Dot matrix
   b- Ink jet
   c- Laser
   d- All of the above

8. **Examples of printers interfaces(d)**

   a- USB
   b- Serial
   c- Network
   d- All of the above

9. The resolution of printers as dpi means**(a)**

   a- Dot per inch
   b- Data per inch
   c- Data per industry
   d- Dot per image

10. The speed of printing of computer printers is described as**(a)**
   a- Page per minute
   b- Page per hour
   c- Page per day
   d- Page per second

Question 2

a- Compare between CRT monitors and LCD monitors

b- Compare between inkjet printers and laser printers

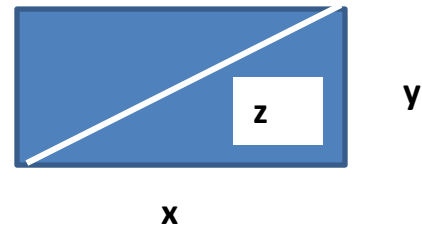Laser : faster , more cost , use toner

Inkjet : slow , less cost , use ink caartridge

Question3

A 25 inch computer monitor has aspect ration of 16:9.

Find x,y and z in cm.

Solution:

Z= 25x 2.54 = 63.5 cm

$$\frac{x}{y} = \frac{16}{9} \qquad \approx \qquad \approx\approx$$

$$z = \sqrt{x^2 + y^2} \ , \quad z = y\sqrt{1 + (\frac{x}{y})^2} \ , \quad 63.5 = y\sqrt{1 + (\frac{16}{9})^2}$$

$$63.5 = y \ x \ 2.1$$

$$y \approx 30 \ cm$$

$$x = \ 30x\frac{16}{9} \approx\approx 51 \ cm$$

Question4

Find the size of computer memory(bytes) needed when the used computer monitor has resolution of 1024x768 and 256 colors .

Solution

Each pixel uses 256 colors = 2^8 ,   8 bits (one byte)

Memory needed = 1024x768 x8 bits = 1024x786 bytes

Question5

A laser printer has 300 pages per minute and 1200 dpi. Find the time needed to print

   10 MB file if each page has data size of 200KB.

Solution

 # pages = 10 x1024x1024 / 200x1024 = 0.05x1024 = 51.2 = 52 pages

 Time of printing = (52/300)* 60 = 10 seconds