



Topic (1)

Question

1- What solving problem steps?

1.
2.
3.
4.
5.
6.

2- Rearrange solving problem steps?

- () Perform algorithm
- () Testing and debugging of the Program
- () Define the outputs and inputs
- () Documentation
- () Problem Definition
- () Coding (converting the algorithm into programming language)

3- What is the meaning of multimedia?

4- What are the advantages of multimedia?

5- Multimedia components are

- 1-
- 2-
- 3-



Answer(1)

1- What solving problem steps?

1. Problem Definition
2. Define the outputs and inputs
3. Perform algorithm
4. Coding (converting the algorithm into programming language)
5. Testing and debugging of the Program
6. Documentation

2- Rearrange solving problem steps?

- (3) Perform algorithm
- (5) Testing and debugging of the Program
- (2) Define the outputs and inputs
- (6) Documentation
- (1) Problem Definition
- (4) Coding (converting the algorithm into programming language)

3- multimedia: is a word has 2 parts (multi) which mean many and (media) that will carry the different information (text, sound, picture, video).

4- Advantages of multimedia in education

- 1- We use many human senses to get the information
 - 2- Save time and effort
 - 3- Make the learning process fun and interesting
 - 4- Attractive to the information presented, which helps to speed absorbed
 - 5- Several ways and styles to present the information to be suit to all levels
 - 6- Identify what is new in information technology.
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7- Multimedia Components are:

1- Data and Information: It could be Text, Image, Picture or, Sound and Video Clips

2- Hardware: All the tools need to deal with all types of data and information like Scanner and Digital Camera

3- Software: The Program we use to deal with all type of data like (Movie Maker) to work with video clips and program (Sound Recorder) to work with sound files and program (Windows Media Player) to play video and sound files



Topic (2)&(3)

Question

1- **Put (✓) or (×):**

- 2- To create a Folder, use the **left** button of the mouse then choose **New** then **Folder** then write the name of the folder. ()
- 3- www.Facebook.com is an example for search engines. ()
- 4- Wikipedia's are a perfect references, because they depends on more than one type in displaying the information, like articles – tables – pictures – shapes and maps.()
- 5- To **delete** a file, you must **refresh** it, then choose **delete** from **Submenu**. ()
- 6- Wikipedia's are sorted ascending or descending. ()
- 7- It is a disadvantage for Wikipedia's that information is huge and produced in different shapes or forms. ()
- 8- To search in search engines, you type the **key-word** such "Egypt Map" and type the form you need it (map - picture). ()
- 9- To **rename** a file, you must **refresh** it, and then choose **rename** from **Submenu**.()
- 10- Wikipedia's are sorted alphabetically or by topics. ()
- 11- The Columns named numerically(1, 2, 3, ...) and these characters are used to set the location of each column in the worksheet. ()
- 12- The Rows named alphabetically (A, B, C ...)and these Numbers are used to set the location of each row in the worksheet. ()



2- Choose between brackets :

- 1- Wikipedia's can be sorted by (ascending - scientific classes - descending) in order to easily get the information.
- 2- Internet sites which help in search service are called (search engines - Wikipedia – operating systems).
- 3- The most famous encyclopedia is (yahoo - Google - Wikipedia).
- 4- To delete a file, you refresh it then choose (New - Rename – Delete) from the submenu.
- 5- The advantages of Encyclopedias are (search easily - fast – different shapes of information - all previous).
- 6- The basic types of data that can be inserted in spreadsheets (text- numbers – formulas-all previous)

3- complete the following:

Spreadsheet (Electronic Data Table) consists of Group ofand a Group ofwhere Each (Row) represents aand each (Column) representsand each field contains



Answer(2) &(3)

1- Put (✓) or (×):

- 2- To create a Folder, use the **left** button of the mouse then choose **New** then **Folder** then write the name of the folder. (×)
- 3- www.Facebook.com is an example for search engines. (×)
- 4- Wikipedia's are a perfect references, because they depends on more than one type in displaying the information, like articles – tables – pictures – shapes and maps.(✓)
- 5- To **delete** a file, you must **refresh** it, then choose **delete** from **Submenu**. (✓)
- 6- Wikipedia's are sorted ascending or descending. (×)
- 7- It is a disadvantage for Wikipedia's that information is huge and produced in different shapes or forms. (×)
- 8- To search in search engines, you type the **key-word** such "Egypt Map" and type the form you need it (map - picture). (✓)
- 9- To **rename** a file, you must **refresh** it, and then choose **rename** from **Submenu**.(✓)
- 10- Wikipedia's are sorted alphabetically or by topics. (✓)
- 11- The Columns named numerically(1, 2, 3, ...) and these characters are used to set the location of each column in the worksheet. (×)
- 12- The Rows named alphabetically (A, B, C ...)and these Numbers are used to set the location of each row in the worksheet. (×)



2- Choose between brackets

- 1- Wikipedia's can be sorted by (ascending - scientific classes - descending) in order to easily get the information.
 - 2- Internet sites which help in search service are called (search engines - Wikipedia – operating systems).
 - 3- The most famous encyclopedia is (yahoo - Google - Wikipedia).
 - 4- To delete a file, you refresh it then choose (New - Rename – Delete) from the submenu.
 - 5- The advantages of Encyclopedias are (search easily - fast – different shapes of information - all previous).
 - 6- Data type can saved in Excel Datasheet cell (Text data- Numeric Data- Formula-**all previous**)
-

3- complete the following:

Spreadsheet (Electronic Data Table) consists of Group of **(Rows)** and a Group of **(Columns)** where Each (Row) represents **a (Record)** and each (Column) represents **a (Field)** and each field contains **(Data)**.



Topic (4)

Questions

1. Mention some of picture file extensions.?
2. Mention the ways to process image in computer?
3. Which of these extensions TIF – TGA _ SCT _ PPS _ PNG _ PCX _ PDF _ JPG _ EPS _ GIF _ BMP _ PSD. Is not a picture file extension
4. Which of these extensions GIF _ TIF – TGA _ SCT _ PNG _ PCX _ PDF _ JPG _ EPS _ BMP _ PSD. Are preferred to be used in web and software development
5. What should we take into consideration to specify which picture extension we use when we make software applications?
6. Compare between picture files (GIF and JPG) in terms of color number, file size, moving, transparency.
7. Compare between vector and Raster?
8. Put (✓) & (✗)
 1. We can save a picture with different extension. ()
 2. When we change the picture dimension its size will change ()
 3. In editing a picture we can change its width only ()
 4. Modifying image size means changing the length and width of the image ()
 5. We can add a different effect on the part of an image without losing the image ()



9 –complete the following:

1- Mention four types of images type which can be used in some controls in visual Basic language

a- b- c- D-

2-Animated image files take the extensions.....

3- From image file that can be used in websites.....and.....

4- Image file of type Most of operating systems deals with.

10- **Read the names of the following files:**

**Filename.raw , Filename.bmp , Filename.doc , Filename.gif,
Filename.jpg , Filename.htm , Filename.xls , Filename.frm ,
Filename.png , Filename.wmf , Filename.wm**

Then answer the following:

a- Which of these files considered images files?

b- Fill the following table by the name of images files

The least color file	The largest size file	The smallest size file	Files which can be animated	Files which support transparency



11. Put the suitable word in suitable place

Image resolution - Animated image (GIF) – Pixel - Text

.....Used to measure the dimensions of images and the greater the number in the image increased.....,It also can add.....to any image by image editing software andis displayed number of images sequentially in a specified time

12. Put (✓) or (×)

1. Pixel is the smallest unit of measurement of the dimensions of the image. ()
2. To reduce image resolution (clarity) we should reduce its number of pixels in the image. ()
3. Pixel is a point on the shape of a square within the image ()
4. There is a tool in editing program used to fill the space required color ()
5. Photo editing software has pre-fabricated forms for use in the picture ()
6. Editing software allows adding text to the image ()
7. You cannot edit an readymade image bye editing programs ()
8. We can't use photo editing software with images that does not draw by these programs ()
9. Animated picture of type (GIF) is a multiple images are displayed sequentially at a specified time ()



Answers(4)

1. Mention some of picture file extensions.

TIF – TGA _ SCT _ _ PNG _ PCX _ PDF _ JPG _ EPS _ GIF _ BMP _ PSD

2. Vector and Raster.

3. Witch of this extensions TIF – TGA _ SCT _ PPS _ PNG _ PCX _ PDF _ JPG _ EPS _ GIF _ BMP _ PSD. Is not pictures file extension

4. Witch of this extensions GIF _ TIF – TGA _ SCT _ PNG _ PCX _ GIF _ PDF _ JPG _ EPS _ BMP _ PSD. Are preferred to used in web and software develop

5. What should we take into consideration to specify which picture extension we use when we make software applications?

1. The image size
2. The available size for the application
3. Is it move image
4. Is it nee transparent background

6. Compare between picture files (GIF and JPG) in terms of number of colure, file size, moving, transparency.

Face comparison	GIF	JPG
number of colure	256 colure	16 million colure
file size	Less size	Bigger size
moving	Can move	Can't move
transparency	support	Not support



7.

Comparison face	vector	Raster
Processing	Mathematical equation	pixels
Accuracy and quality of image at maximization and minimization	Don't change	change
Storage size	small	large
examples	Wmf, emf, eps	Raw, bmp, tiff, gif, jpg, png

8. Put (✓) & (×)

1. We can save picture with different extension (✓)
2. When we change the picture dimension its size will not change (×)
3. In editing picture we can change its width only (×)
4. Modifying image size mean changing the length and width of the image (✓)
5. We can add a different effect on the part of image without lasting image (✓)

9.

1- A-bmpb- Jpgc- pngd- wmfe- gif

2- Gif

3- png, gif, jpg

4- bmp



10.

a- Filename.raw , Filename.bmp , Filename.gif - أ
 ,Filename.jpg Filename.png , Filename.wmf

b-

The least color file	The largest size file	The smallest size file	Files which can be animated	Files which support transparency
Filename.gif	Filename.raw	Filename.wmf	Filename.gif	Filename.gif
				Filename.png
				Filename.wmf



11. Put the suitable word in suitable place

Image resolution - Animated image (GIF) – Pixel - Text

Pixel Used to measure the dimensions of images and the greater the number in the image increased **Image resolution**. It also can add **Text** to any image by image editing software and **Animated image (GIF)** is displayed number of images sequentially in a specified time

12. Put (✓) or (✗)

1. Pixel is the smallest unit of measurement of the dimensions of the image (✓)
2. To reduce image resolution (clarity) we should increase its number of pixels in the image (✗)
3. Pixel is a point on the shape of a square within the image (✓)
4. There is a tool in editing program used to fill the space required color (✓)
5. Photo editing software has pre-fabricated forms for use in the picture (✓)
6. Editing software allows adding text to the image (✓)
7. You cannot edit a ready-made image by editing programs (✗)
8. We can't use photo editing software with images that does not draw by these programs (✗)
9. Animated picture of type (GIF) is a multiple images are displayed sequentially at a specified time (✓)



General questions

1- Put (✓) for the correct statements and (✗) for the wrong

1. Definition the outputs is the first step to solve the problems . ()
2. We can use the internet to search for files and save them on your computer ()
3. Wikipedia is one of the most important Encyclopedias. ()
4. GIF image files enable you to deal with more than 356 colors. ()

3- Rearrange some of the solving problems steps

- () Test and Fix problem
- () Definition the output
- () Perform solution Algorithm



Answers

1- Put (✓) for the correct statements and (✗) for the wrong

1. Definition the outputs is the first step to solve the problems . (✗)
2. We can use the internet to search for files and save them on your computer. (✓)
3. Wikipedia is one of the most important Encyclopedias (✓)
4. GIF image files enable you to deal with more than 356 colors. (✗)

2- Rearrange some of the solving problems steps

- (3) Test and Fix problem
- (1) Definition the output
- (2) Perform solution Algorithm