

Question 1

- a) Which computer is the fully operational and general purpose computer? [1]
- b) Name the i) generation in which it was developed? [1]
ii) high level language used in the above generation. [1]
- c) Write down any two features of that computer. [1]
- d) Write down the name of the first electromechanical computer .Who developed it? [1]

Question 2

- a) Write down the name of the main component used in the following generations
 - i) Second generation.
 - ii) Third generation
 - iii) Fourth generation
 - iv) Fifth generation[2]
- b) Write down the difference between an analog computer and digital computer. [2]
- c) Name the computers used i) to perform a single task
ii)to manage a variety of tasks. [4]
iii) to support multi user system
iv) for weather forecasting
- d) Write down the name of the computer languages used for the following: [1]
 - a) Engineering and scientific applications
 - b) Web designing
- e) Write down the difference between high level languages and low level languages. [2]
- f) What is an assembler? [2]
- g) Write down the differences between a compiler and an interpreter. [2]

Question 3

- a) What is a file? [2]
- b) Write down the fundamental operations on files? [2]
- c) What are the steps to view the contents of a file? [2]
- d) Differentiate between source drive and destination drive. [1]
- e) What do you mean by the path of a file? [1]
- f) What are the two parts of a file name? [1]
- g) What do you mean by moving a file? [1]
- h) a) Name the folder where the deleted files are stored?
b) Write down the option used to brought back the deleted files? [1]
- i) What is searching a file? [1]

j) Match the following:

- | | |
|----------|--------------------------|
| 1) .docx | music file |
| 2) .xls | adobe Photoshop |
| 3) .ppt | portable document format |
| 4) .gif | document file |
| 5) .pdf | spreadsheet |
| 6) .psd | PowerPoint slide |
| 7) .mp4 | graphics interface file |

[7]

k) Name the **buttons** used for the following:

- 1) To close an active window
- 2) enlarges the active window
- 3) shrinks the active window and takes the shape of a button on the task bar
- 4) reduces the size of the active window to some extent.

Question 4

- a) Define the following:
1) Stage 2) sprite 3) blocks 4) backdrop
- b) Write down the steps to add a backdrop on the stage.
- c) How can you delete a sprite?
- d) Write down the steps to change the size of a sprite.
- e) Name the following: i) act of producing elements in different forms.
ii) set of scripts added systematically in the script area.
- f) What is the use of motion block?
- g) Write down the use of following blocks.
1) Looks 2) Sound 3) Events 4) Control 5) Sensing
- h) Define the following: 1) variable 2) operators 3) operands
- i) Match the following:

- Blocks**
1. Events
 2. Control
 3. Sound
 4. Motion
 5. Looks
 6. Sensing

- Scripts**
- Set volume
 - touching
 - if-then
 - hide
 - When space key pressed
 - point in direction

3) Write down the use of the following scripts

1) repeat script 2) forever script 3) if-else script

[3]

Question 3

Write down scratch programs for the following

- 1) Let a soccer ball appears on the stage. Write a scratch program to bounce the ball repeatedly unless stop button is pressed. [2]
- 2) Bring a cat on the stage. Write a program in scratch to rotate the cat 360 clockwise in the position. Wait for 2 secs and rotate it anticlockwise by 360 degree. [2]
- 3) Bring an apple on the stage. Write a scratch program to glide the apple for 10secs towards X and Y coordinates (10,90) respectively. The apple will wait the given coordinates for 1 sec. Further it glides back at coordinates (-150,133). [2]
- 4) Bring an aeroplane on the stage. Write a scratch program to fly the aeroplane with the phrase 'Nice riding'. [2]
- 5) Set the stage as Indoor with two sprites Catherine and Cassy dance. Write a program in the scratch for each individual sprite dancing on the stage.
(Write programs for each sprite)