1. Fundamentals of Computer

Quiz Bee
Page-12
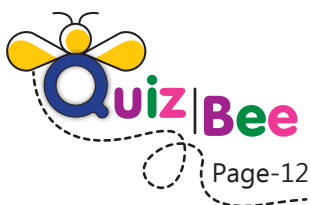
1. A microprocessor is an integrated chip on which the entire CPU (Control Unit and ALU) is fabricated.
2. Digital Camera and Microwave.

ASSESS YOURSELF

1. a. (iii)　　　　b. (iii)　　　　c. (iii)　　　　d. (iv)　　　　e. (ii)
2. a. Intel 4004　　　　　　b. Gaming Console
   c. Digital Computer　　　　d. Embedded Computer
   e. Supercomputers
3. a. F　　　　b. T　　　　c. F　　　　d. T　　　　e. F
4. a. Third generation　　　b. Analog computer　　　c. CPU
   d. Laser printer　　　　　e. Projector
5. a. Some distinct features of Supercomputers are:
   - A supercomputer consists of a large number of processors and also occupies a huge amount of space.
   - It is a very powerful machine for performing complex scientific calculations.
   - Calculations that a personal computer performs in three weeks can be performed by a supercomputer in minutes.

b.

Microcomputers	Mainframe computers
Microcomputers were earlier termed personal computers. A personal computer consists of a CPU, computer memory (primary and secondary), input and output devices. Desktop computer, labtop, tablet and smartphone are examples of microcomputers.	A mainframe computer is a massive computer that occupies a huge amount of space and often fills an entire room. It can store an enormous amount of information and is designed for multitasking with several users working simultaneously. Mainframe computers usually have multiple terminals connected to them.

c. An embedded computer is a special type of microprocessor-based system that is developed for performing a specific task. Let us learn about some of the embedded computers in detail. Digital camera and microwave are the examples of embedded computer.

d. A gesture recognition camera is a motion input device. Motion input lets the user guide the on-screen elements using air gestures. Air gestures involve moving your body or a handheld input device through the air. With motion input, a device containing a camera detects your gestures and then converts them to a digital signal that is sent to a computer or game device. For example, gamers can pull their arm back to throw a javelin in the game.
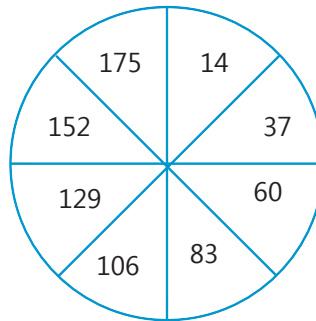
6.

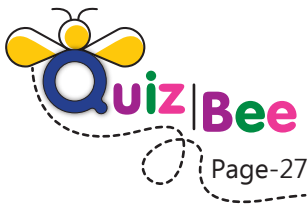| Impact Printers	Non-impact Printers
Printers that have direct contact between the print head and paper are known as impact printers. Example: Dot matrix printer.	The printers that do not have direct contact between the print head and paper are known as non-impact printers. Example: Laser printer and Inkjet printer.

7. a. A hybrid computer would be the most suitable for this purpose.

b. The microprocessor is the component which has primarily contributed to the reduction in size of this complex machine called a computer. A microprocessor is an integrated chip on which the entire CPU (Control Unit and ALU) is fabricated.

175	14
152	37
129	60
106	83

2. Formulas and Functions in Excel 2021

Quiz Bee
Page-27

1.   MAX(range)

2.   Colon (:), Single space and Comma (,)

ASSESS YOURSELF

1.   a. (iii)   b. (iv)   c. (iii)   d. (iii)   e. (iii)

2.   a. 60   b. 60   c. 8   d. 1   e. 5.68

      f. Excel 2021   g. Open   h. 7

3.   a. #DIV/0! error.   b. #NUM! error.   c. #REF! error.   d. #VALUE! error.

      e. #VALUE! error.

4.   a. A cell reference is a cell address that can be used in a formula to denote a specific cell.

      b. Enter a formula into the cell after typing an equals sign. Now, press the Enter key to see the result of the formula in the cell.

      c. The SUM function returns the sum of a range.

      d. The syntax of this function is CONCATENATE (text1, text2). It is used to join together two or more different text strings.

Example of CONCATENATE function is given below:

Input: =CONCATENATE ("Touch", "pad")

Output: Touchpad

e. To select a cell range using a mouse, click in the first cell from which you want to start the range, then press and hold the left mouse button and drag the mouse diagonally to select the desired range. Now release the mouse button.

5. a.

Relative Cell Referencing	Absolute Cell Referencing
In relative cell reference, you actually refer to the cell that is above or below and left or right to a number of rows or columns. When a formula is copied to a new location in a worksheet, the value in the copied cell also changes.	In absolute cell referencing, cell references in the formula remain the same even if we copy and paste the formula to a new location. It is used when you maintain the original references as they were.

b.

Comparison Operators	Reference Operators
These operators are used to compare two values with the given set of operators. When two values are compared by using these operators, the result is either True or False. Some comparison operators are = (equal to), > (greater than), < (less than), >= (greater than equal to), <= (less than equal to) and <> (not equal to).	These operators are used to combine a range of cells for calculations. Some reference operators are colon(:) (range operator), comma(,) (union operator), space (intersection operator). Range operator produces one reference to all the cells between two references. Union operator combines multiple references into one reference. Intersection operator produces a reference to cells common to the two references.

6. a. Adhyay should use the =RIGHT function. The syntax of RIGHT function is:

Input: =RIGHT("9988776655",3)

Output: 655

b. Gaurav should use comparison operator (=) to do so.

{CODING ZONE}

a. =CONCATENATE("Good ", "Morning")
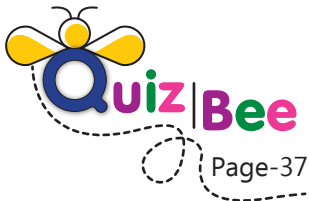   result: GoodMorning

b. =MIN(10,6,-2,0)
   result: -2

c. SUM(65, 45)

result: 110

d. RIGHT(1256, 2)

result: 56

3. Charts in Excel 2021

Bar Chart

ASSESS YOURSELF

1. a. (ii)   b. (iii)   c. (iv)   d. (ii)   e. (iii)
2. a. X   b. Line   c. Legend   d. Gridlines   e. Shift
3. a. Value axis b. Line Chart   c. Doughnut Chart   d. Scatter Chart   e. Plot Area
    f. Format Selection
4. a. Charts in Excel are a pictorial representation of data and are also called graphs. The two commonly used charts are Column chart and Bar Chart.
    b. The two advantages of using charts are:
    - A lot of information can be displayed in an easy-to-understand format.
    - Data can be presented in an attractive way to attract the attention of readers.
    c. To update a chart with new rows and columns, follow the given steps:
      1. Select the chart and click on the Chart Design tab.
      2. Click on the Select Data command in the Data group.
      3. Change the data range in the Chart data range text box.
      4. Click on Ok button.
    d. Gridlines makes it easier for users to read and understand the values.
    e. To move the chart, click on the blank area in the chart. It gets automatically surrounded with borders and handles. Now you can easily click and drag the chart to the desired new location.
5. a. Bar Chart   b. Scatter Chart   c. Scatter Chart   d. Line Chart
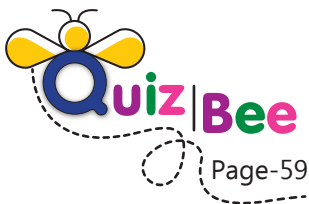
{CODING ZONE}

Do it yourself.

PERIODIC ASSESSMENT ①

(Based on chapters 1 to 3)

1. a. Smart Watch: A smart watch is a computing device that can be worn on your wrist.
   b. Barcode Reader is used for reading printed barcodes.
   c. Projector: A projector projects or displays data from a computer screen onto a large screen or surface for the audience.
   d. Gesture Recognition Camera: Motion input lets the user guide the on-screen elements using air gestures.

2. a. Minicomputers   b. Memory Unit   c. Automated Teller Machine
   d. Optical Mark Reader   e. NOW()   f. ####

3. a. 4   b. 15   c. 8   d. 3

4. Krita—An Introduction

QuizBee
Page-59

B key

ASSESS YOURSELF

1. a. (ii)   b. (iii)   c. (ii)   d. (ii)   e. (ii)
2. a. Title   b. Dockers   c. Canvas   d. Shift   e. Parameters
3. a. Resource Manager   b. Outline   c. .png, .jpg
4. a. The three components of Krita are as follows:
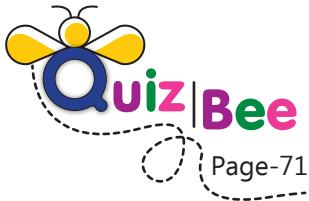   • Title Bar
   • Menu Bar
   • Toolbox

b. The Polygon tool is used to draw polygons. Using the Polygon Tool in Krita allows for precise and customisable polygonal shapes, making it a useful tool for various digital art projects.

c. The options shown by the Tool Options Docker for the Rectangle tool are:

- Fill: This lets you choose the colour that fills the inside of the rectangle. Click the drop-down arrow to open options like No Fill, Front Color, Back Color, and Patterns.
- Outline: This allows you to pick the colour that outlines the border of the rectangle. Click the drop-down arrow to open options like No Outline, Brush, and Brush (Background Colour).
- Size: This helps to adjust how thick or thin the outline of the rectangle appears. You can type a number or use the arrow buttons to increase or decrease the outline thickness.

d. The Text tool in Krita can help you add and customise text in your artwork. It allows users to type text, adjust the font, size, style (bold, italic, etc.), and alignment from the options provided in the text editor dialog box.

e. (i) Line tool: The Line tool is used to draw straight lines. The Size option in the toolbar is used to set the thickness of the line.

(ii) Rectangle tool: The Rectangle tool is used to draw rectangles or squares. It provides options to fill the rectangle, outline it, and adjust the thickness of the outline.

(iii) Freehand Brush tool: The Freehand Brush tool is used for sketching and painting. Krita offers various types of brushes with adjustable parameters to get the desired result in artwork.

5. a. Tools Sam should use:

- Use the Freehand Brush Tool to draw.
- Adjust Size for thickness and Foreground Colour from the toolbar to dark brown.

b. Tool Riya should use:

- Use the Text Tool to add the message.
- In the Edit Text dialog box, customise font, size, style, and alignment.

 {CODING ZONE}

1. a. Grass   b. Horse
2. a

5. Learn HTML5 and CSS3

Quiz Bee

These tags are self-contained. They have only an opening tag.

For example: <BR>.

ASSESS YOURSELF

1. a. (iii)   b. (i)   c. (ii)   d. (i)   e. (i)
2. a. HTML5   b. Tags   c. Features   d. <HR>   e. Three
3. a. F   b. F   c. T   d. F   e. T
4. a. HTML   b. Document's title   c. Empty tags   d. CSS 3   e. <H1>
5. a. The <BODY> tag defines the section of the HTML document that is visible on the web browser. It contains all other tags that define the content presentation elements such as images, lists, tables, text, and links to move between the webpages.

   b. The selector specifies the element to which we want to apply the formatting, and the declaration specifies the formatting to the selector.

   c. Comments are used to write notes about the concerned HTML document. We can add comments in our program using a comment tag <!-- -->.

   For example: <!-- This is a comment in HTML -->

   d. The DOCTYPE declaration at the beginning of the page specifies that the document is written in HTML5. In HTML5, the DOCTYPE declaration is required.

6.

Internal CSS	External CSS
Internal CSS allows us to define the style for a single HTML page.	External CSS allows us to define the style for many webpages by using a single CSS file.
It is defined using the <STYLE> tag in the <HEAD> section of the HTML page.	It is written in a separate file with a .css extension.

7.   a. `<P>` tag   b. Ravi should use the `<H6>` tag.   c. text-align: center;

{CODING ZONE}

a.
```
<Head>
   <Style>
     h1 {
        color: red;
     }
     h1 {
        color: green;
     }
   </Style>
</Head>
```
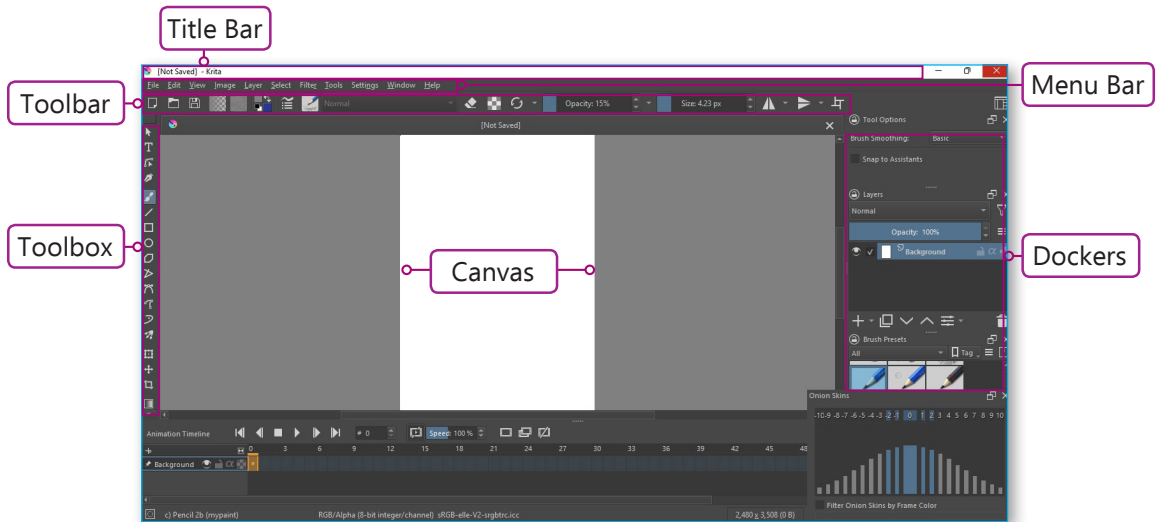
b.
```
<!DOCTYPE HTML>
<HTML>
   <HEAD>
      <TITLE>Using Headings in Html5</TITLE>
   </HEAD>
   <BODY>
      <H1>Biggest Heading</H1>
      <H6>Smallest Heading</H6>
   </BODY>
</HTML>
```

PERIODIC ASSESSMENT 2

(Based on chapters 4 & 5)

1.

Title Bar

Toolbar

Toolbox

Canvas

Menu Bar

Dockers

2. a. Chart

b. Scatter Chart

c. TODAY()

d. ATM (Automated Teller Machine)

e. Supercomputer

3. | 3 | Select an Eraser brush presets.

| 2 | Select Choose brush preset.

| 4 | Drag the Eraser presets over the area you want to remove.

| 1 | Select the Freehand Brush tool.

Test Sheet 1

(Based on chapters 1 to 5)

1. a. (iii)   b. (iv)   c. (iii)   d. (ii)   e. (i)   f. (ii)

2. a. Control Unit   b. OCR   c. function   d. LEN()   e. equal (=)   f. Shift

   g. parameters

3. a. (T)   b. (T)   c. (T)   d. (T)   e. (T)

4. a. Barcode reader or barcode scanner is an electronic device, used for reading printed barcodes.

   b. The results of the formula in a numerical formula, are calculated according to an order is known as the operator precedence. The order of precedence is:
   - Colon (:), single space, comma (,)
   - Percentage (%)
   - Exponent (^)
   - Multiplication (*) and Division (/)
   - Addition (+) and Subtraction (-)
   - Comparison Operators (=, <, >, <=, >=, <>)

   c. A formula is an expression that operates on the value or a range of cells and generates a result.

   d. Legend: It is a key which displays the symbols or colours used in the chart.

   Chart Area: It includes all objects and elements of a chart.

   e. It organises and controls a document's content in layers and frames. Like films, Animate documents divide time lengths into frames.

   f. The Selection tool allows us to select an object in a rectangular selection marquee by clicking and dragging over the object.

5. a. A handheld computer is a type of computer that can easily be stored in our pocket and used by holding it in our hands. Most of handheld computers have a touchscreen in which we input data by using our fingers. Smartphone and Smartwatch are two examples of handheld computer.

   b. A group of selected cells is called a cell range. The selected cells should be in continuation to form a range. Cell range is used to perform a calculation on multiple cells.

   To select a cell range using a mouse, click in the first cell from which you want to start the range, then press and hold the left mouse button and drag the mouse diagonally to select the desired range. Now release the mouse button.

c. To save an Animate file, follow the given steps:

1 Click on the File menu.

2 Click on the Save option.

3 Choose the location where you wish to save the file.

4 In the File name: box, type the file name.

5 Click on Save button.

d. To change the background of the chart, follow the given steps:

1 Select the Chart.

2 Click on the Format tab.

3 Click on the Format Selection command.

4 Click on the Fill section.
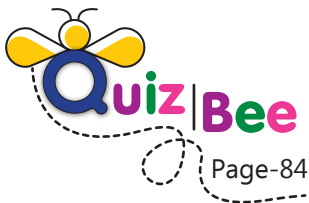
5 Click on the Picture or texture fill option button.

e. To change the chart type, follow the given steps:

1 Select the chart and click on Design tab.

2 Click on the Change Chart Type command.

3 Click on desired option (here we choose Line option). The chart will change to Line Chart.

f. We can change the font face and font size of the text from Properties inspector. To do so, follow these steps:

1 Select the Text.

2 Select the Font face.

3 Select the Font size.

4 Select the Fill option.

5 Select the Colour.

6 Select Spacing.

6. Formatting a WebPage

Page-84

text-align

1. a. (ii)   b. (iii)   c. (i)   d. (iii)   e. (iii)
2. a. font-size   b. text-decoration, strikethrough   c. color   d. repeat-y
    e. margin
3. a. background-image   b. text-indent   c. 16px
    d. normal, italic   e. pixels
4. a. It specifies the image to be used in the background on the webpage.
    b. `<style> .text-20px { font-size: 20px; } </style>`
    c. We use the font-family CSS property within a style attribute or a CSS class to change the paragraph's font.
    d. The background properties are used to make changes to the background of a webpage. The various background properties are as follows:
    background-color
    background-image
    background-repeat
5. • background-color – it specifies the background colour to be used on the webpage.
    • color – Specifies the text colour to be used on the webpage.
6. a. `<p style="text-indent: 50px">This is an indented paragraph.</p>`
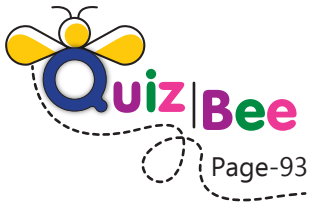   b. `<body style="background-image: url('globe.jpg'); background-repeat: no-repeat;">`

{CODING ZONE}

```
body {
    font-family: arial;
    background-color: lightblue;
}
h1 {
    text-align: center;
```

```
    color: red;

}
```

7. Introduction to Mobile Apps

Quiz Bee
Page-93

Two features of apps are:

- user-friendly
- easy to design

ASSESS YOURSELF

1. a. (ii)   b. (iii)   c. (i)   d. (iii)   e. (iii)

2. a. Platform, Device   b. Web server, bowser

    c. Native, Web   d. Internet

3. a. T   b. T   c. F   d. T   e. T

4. a. Apps or Application Software   b. Apple   c. WhatsApp

    d. Native, Web, and Hybrid apps

5. a. E-commerce means buying or selling products on online services over the Internet. E-commerce apps allow us to buy or sell products while sitting at home or any other place. Examples of E-commerce apps are Amazon, Flipkart, Paytm, Grofers, etc.

    b. Lifestyle apps are sub-categorised fitness, food, travel, health, leisure, etc. They make your travel easier, more comfortable, and fun without getting too worried about what you are going to eat while on travel. You can even book a table at your favourite restaurant. These apps also track your fitness and give suggestions to improve your lifestyle. Examples of lifestyle apps are Google Maps, MakeMyTrip, Uber, Google Earth, Ola, etc.

    c. Communication apps allow us to communicate with each other by sending and receiving messages, information and opinions in the form of texts, videos, and audio. These apps also allow us to see the face of the person to whom we are talking. Examples of communication apps are Skype, Hike, FaceTime, etc.

d. **Web apps:** Web apps are actually web applications that give a user an experience similar to that of native apps. These apps cannot be installed via the Play Store or App Store. These are deployed on the web server. Hence, you need an extra app called a browser to access these apps on your mobile device. You also need an Internet connection to work with Web apps.
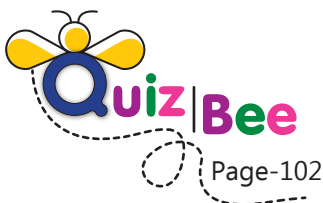
Native apps: Apps that are developed for a specific platform (Operating System) and device are called Native apps. A native iOS app would not be able to work on Android, and an app developed for Android or Windows wouldn't work on iOS systems. These apps can be installed from the app stores such as Google's Play Store or Apple's App Store.

6. a. Lifestyle apps

   b. Utility App

{CODING ZONE}

1. Friday   2. 64 Marks   3. Do it yourself.

8. Internet Services

Quiz Bee
Page-102

Google Meet and Zoom

ASSESS YOURSELF

1. a. (ii)   b. (iii)   c. (ii)   d. (iii)   e. (i)
2. a. Internet banking   b. Blog   c. Google   d. New
   e. Video conferencing
3. a. Messenger   b. iTunes   c. Google   d. Amazon
   e. Google Drive
4. a. Zoom is a tool for video conferencing, letting people see and talk to each other online. It's used for online classes and meetings, so everyone can connect from different places.
   b. The Internet plays an important role in the banking sector. Online banking allows us to transfer money and pay bills securely using the bank's secure website and apps.

c. A Blog or Weblog is a personal online diary or journal that allows us to share our thoughts or ideas. A blog allows us to connect with people with similar interests. We can add videos, pictures and music to our blog and visitors can add comments on the published content too.

d. Some benefits of e-commerce are:

- E-commerce websites are operational round the clock, so we can purchase an item at any time of the day.
- It saves time and travel expenses.
- It allows us to compare prices and features of various products online.
- Some e-commerce websites allow us to exchange the product within a given time limit if found unsatisfactory.

e. Video conferencing is used in businesses to conduct meetings or online classes for students located anywhere in the world, and in the healthcare industry by doctors to interact with patients and colleagues.

Each participant requires a video camera, a microphone, speakers and a high-speed Internet connection to transmit audio and video data. As we speak, members of the meeting hear our voices on their speakers. Anything in front of the camera, such as the person's face, appears in a window on each participant's screen.

5. a. Video Conferencing   b. Google Drive

{C◉DING ZΩN≡}

1. The 4's preceded by 7 and not followed by 3 are: 742, 746, 741, 746

    * There are 4 such occurrences.

2. Sleeping

PERIODIC ASSESSMENT 3

(Based on chapters 6 to 8)

1. a. Color   b. background-color   c. text-align

    d. HyperText   e. <Title>

2.
```
<!DOCTYPE html>
<HTML>
<HEAD> <TITLE>Text Properties</TITLE>
<STYLE>
H1{text-align:center; color:red}
</STYLE>
</HEAD>
```

```
<BODY>

<H1>Solar System</H1>

<P style="font-family:Times New Roman;">

The <B>Solar System</B> is the <B>gravitationally</B> bound system of
  the Sun and the objects that orbit it, either directly or indirectly.</
  P>

</BODY>

</HTML>
```
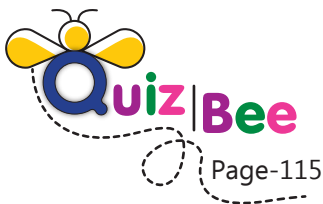
3. a. Video conferencing is a live meeting held between two or more geographically separated people.

   b. Google Drive is a cloud storage service developed by Google.

   c. Instant messaging allows us to exchange messages (text, pictures, etc.)

9. Algorithm, Flowchart and Mind Maps

Quiz Bee
Page-115

Low-level language

ASSESS YOURSELF

1. a. (iii)   b. (i)   c. (ii)   d. (iii)

2. a. Output   b. Mind Map   c. 1   d. Language Translator

3. a. T   b. F   c. T   d. T

4. a. Diamond   b. Low-Level Language   c. 3GL   d. Mind Maps

5. a. An ideal algorithm has the following characteristics:
   - Input: An algorithm can take input in zeros or greater quantities. It should have well-defined input.
   - Output: At least one result as output is always produced.
   - Definiteness: All instructions given should be clear and easy to understand.
   - Finiteness: It should include a finite number of instructions for completing a task.
   - Effectiveness: It is measured in terms of time and space.
   - Uniqueness: The result of each step should be uniquely identified and only depend on the result of the preceding step.

b. Flowcharts provide the following advantages:
- Programmers can analyse the problem in detail.
- Programmers can easily understand the logic.
- Ideas and solutions can be communicated easily and clearly.
- Once the flowchart is prepared, the coding becomes easy for the programmer.

c. COMPILER: A compiler reads an entire set of instructions written in a high-level language and then translates them into machine language. A major drawback of a compiler is that if there is an error in the program, the programmer will only know it after the entire program has been translated.

INTERPRETER: An interpreter reads one line of instruction at a time and translates it into machine language. Any error in the instruction is reported immediately and the programmer can correct it accordingly. It is slower than the compiler.
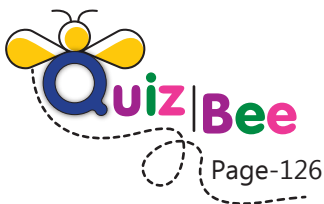
d. An assembler is a program used to translate assembly language into machine language so that the computer can understand it. The assembler enables the computer to convert the assembly language instructions into machine code, i.e., 0's and 1's.

6. a. Interpreter

b. High-level languages are written in English-like statements, which are easier to read, write, and understand compared to binary or machine language

{CODING ZONE}

| 2 | Accept the age of the person. | | 5 | Stop. |

| 3 | If age is greater than or equal to 18, then display, 'You are eligible to vote'. |

| 1 | Start. |

| 4 | If age is less than 18, then display, 'You are not eligible to vote'. |

10. Introduction to Python

Quiz Bee
Page-126

1. T
2. F

2. a. High-level   b. Quotes   c. Interpreted   d. Operand

3. a. Guido Van Rossum   b. Object Oriented   c. .py

   d. Integrated Development Learning Environment(IDLE)

4. a. We use the input() function to take the user's input while a program is being executed.

   b. INTERACTIVE MODE (IDLE SHELL WINDOW): The IDLE Shell window is an interactive window where we can type Python code and view the output in the same window. In the IDLE Shell window, the > > > sign appears. Here, we can type our code and get output by pressing the Enter key.

   SCRIPT MODE (EDITOR WINDOW): Python Shell does not allow us to save our commands written on the command prompt. It gives output immediately after pressing the Enter key. If you want to see all the output after the code has been completed, then you can use the Python script mode. It also allows you to type multi-line codes that we save for later use.

   c. A data type is used to define the type of value a variable can contain. For example, a person's name must be stored as a string value whereas the person's age must be stored as an integer. Commonly used data types in Python are int, float and string.

   d. Operators are the special symbols that are used to perform computations. The values which the operators use to get the output are called operands.

   For example, in the given expression: 20 + 10

   20 and 10 are operands and + is an addition operator.

   e. Following are the features of python:

   • Easy to understand: The syntax or grammar of Python is simpler, making it easier to learn and understand. Writing programs in Python is easy as compared to other high-level programming languages.

   • Open-source: Python is an open-source language and can be easily downloaded for free from the Internet.

5. a. Yes, they will be able to execute the programs.

   Portable feature

   b. Run Module option

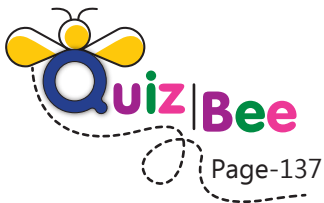## {CODING ZONE}

1. a. Hello, World!   b. 15   c. 16 (4 to the power of 2)

   d. 4 (Floor division)   e. c is : 30

2.   a. print("Hello, World!")

     b. a = "Hello"
       print(a)

     c. a = "Hello!"
       b = "Friends"
       print(a, b)

11. Intelligence and AI Approaches

Quiz Bee
Page-137

Musical Intelligence refers to the ability to recognise musical patterns, tones, rhythms, and sounds. People with this intelligence enjoy singing, playing musical instruments, and thinking in patterns and sounds.

ASSESS YOURSELF

1.   a. (ii)   b. (ii)   c. (i)   d. (iii)   e. (iii)

2.   a. T   b. F   c. F   d. T

3.   a. Interpersonal Intelligence   b. Musical Intelligence
     c. Rule-based approach   d. Logical intelligence, reasoning

3.   a. According to the Harvard psychologist Howard Gardner's theories, humans do not just have an intellectual capacity but also many kinds of intelligence. A person can be strong in a specific area, such as logical intelligence or musical intelligence but simultaneously can also possess a range of abilities.

     b. Rule-Based Approach: A rule-based system uses rules as knowledge representation. These rules are coded in the system in the form of if-then-else statements which help the computer in taking decisions. The idea behind a rule-based system is to use the knowledge of a human expert in a specialised domain and embody it within the computer system.

     Learning-Based Approach: A computer system that achieves AI through a machine learning technique is called a learning-based approach. This approach is often referred to as black

boxes as it is not entirely clear how these systems take decisions. This is a major problem for applications when it comes to making a decision for investment, medical or military reasons as this approach remains unreliable.

    c. Someone with intrapersonal intelligence understands their own feelings and strengths, like knowing what makes them happy or sad, and they enjoy thinking about big ideas. On the other hand, someone with interpersonal intelligence is good at talking to others, understanding how they feel, and working well in groups, like being a good friend and helping solve problems

5.   a. Intrapersonal Intelligence

    b. Logical-Mathematical Intelligence

{CODING ZONE}

1.   a. 64

    b. 141, Type of Intelligence used in solving these riddles: Logical-Mathematical Intelligence

2.   K   N   A   T

A		T	
N		A	
T	A	N	K

Periodic Assessment–4

(Based on chapters 9 to 11)

1.   a. Input box   b. Processing box   c. Output box

2.
```
name = input("Enter your name: ")
age = input("Enter your age: ")
address = input("Enter your address: ")

print("\n--- Your Details ---")
print("Name:", name)
print("Age:", age)
print("Address:", address)
```

3.   a. Bodily-Kinesthetic Intelligence

    b. Logical-Mathematical Intelligence

Test Sheet–2

(Based on chapters 6 to 11)

1. a. (iii) b. (i) c. (ii) d. (iii) e. (iv)

   f. (i) g. (ii) h. (i)

2. a. Algorithm b. Assembler c. External d. Native, Web

   e. Script Mode f. Internet Banking

3. a. F b. F c. T d. F e. T

4. a. A flowchart is the graphical representation of a process and the logic (which is also called an algorithm) used in it.

   b. Markup language is a computer language that uses specific codes for formatting the layout and style of a text file.

   c. Python is a high level object-oriented programming language. It is a general purpose language with interactive features.

   d. Zoom offers the video conferencing option which is a live meeting held between two or more geographically separated people.

   e. People who possess the qualities like being good at dancing and excellent hand-eye and physical coordination.

5. a. An interpreter reads one line of instruction at a time and translates it into machine language. Any error in the instruction is reported immediately and the programmer can correct it accordingly. It is slower than the compiler.

   b. The <HR> tag is used to divide the webpage into different sections by drawing a horizontal line in the webpage. The thickness of the horizontal line is specified through the Size attribute and the length is specified through the Width attribute in pixels or as a percentage. The Color attribute is used to set the colour of the rule. The Noshade attribute makes the line appear flat grey, giving a 2D effect to the rule.

   c. A Variable is the name of memory location that is used to store data values which can be accessed or changed later. The names given to the variables are known as identifiers. In Python, we do not need to specify the type of variable because Python is a dynamically language and it also identifies the variable type automatically.

   In Python, variables are declared and initialized at the same time in the following way:

```
a = 10
b = 20
print ("a=", a)
print ("b=", b)
```

   On the output screen, a = 10 and b = 20 will be printed.

d. To open Python IDLE Shell, follow the given steps:

 1 Type python in search box.

 2 Click on IDLE (Python 3.9 64-bit) option.

Components

Menu bar: It has various menus such as File, Edit, Shell.

Command Prompt: It allows the user to enter commands directly into Python and get an output instantly by pressing the Enter key.

Control buttons: These buttons are used to resize and close the window.

e. To upload a file/folder on Google Drive, follow the given steps:

 1 Click on the New option.

 2 Click on Folder and select File upload or Folder upload option.

 3 Navigate the folder and select the desired files or folders.

 4 Click on Open button.

f. Plant. Visual-Spatial Intelligence