

Emerald Heights International School — Indore

Class 8 – Computer / Programming

Instructions:

- All questions are compulsory.
 - Show your workings / write code neatly.
 - Use appropriate indentation in code.
 - For MCQs, circle the correct option.
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Section A: Fill in the Blanks / One-Word / Short Answer (10 marks)

(Each 1 mark)

1. In HTML, the tag used to embed an image is _____.
 2. The attribute inside `<a>` tag that indicates the target URL is _____.
 3. In Python, the statement `if x > 0:` is a form of a _____ statement.
 4. A loop that repeats a block of code while a condition is true is the _____ loop.
 5. The HTML tag `<video>` can include an attribute _____ to specify the video file source.
 6. To generate a random integer between 1 and 10 in Python, one may use:
`random._____ (1, 10)`
 7. In HTML, the tag `<iframe>` is used to embed _____ in a page.
 8. A game in which the user guesses a number and the computer says “higher / lower / correct” is called a _____ game.
 9. In Python, `elif` is short for **e**_____ **l**_____ **f**.
 10. The HTML tag used to create a table row is _____.
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Section B: Multiple Choice Questions (MCQs) (10 marks)

(Each 1 mark)

1. Which HTML tag is used for the largest heading?
 - a) `<h6>`
 - b) `<h1>`
 - c) `<heading>`
 - d) `<head>`

2. Which of the following is a valid loop in Python?
- a) repeat ... until
 - b) for i in range(5):
 - c) loop i = 0 to 5
 - d) do { ... } while
3. What does `Send mail` do?
- a) Opens email client to send mail
 - b) Downloads a file
 - c) Adds an image
 - d) Plays audio
4. Which Python statement is used to stop a loop prematurely?
- a) exit
 - b) break
 - c) stop
 - d) continue
5. In HTML, which tag is used to add a horizontal line?
- a) `<line>`
 - b) `<hr>`
 - c) `<hl>`
 - d) `
`
6. Which of the following is correct syntax to embed a video?
- a) `<video src="movie.mp4">`
 - b) `<movie src="movie.mp4"></movie>`
 - c) `<vid src="movie.mp4">`
 - d) `<video link="movie.mp4">`
7. What is the output of the following Python snippet?
- ```
8. x = 3
9. if x > 5:
10. print("Big")
11. else:
12. print("Small")
```
- a) Big
  - b) Small
  - c) Nothing
  - d) Error
13. In a “Rock-Paper-Scissors” game, which of these is *not* a valid move?
- a) Rock
  - b) Paper
  - c) Scissors
  - d) Fire

14. What does `<iframe src="page.html"></iframe>` do?
- a) Creates a clickable link
  - b) Embeds another HTML page inside the page
  - c) Inserts an image
  - d) Plays video
15. The `continue` statement in Python does what?
- a) Exits the loop entirely
  - b) Skips the rest of the current iteration and continues with the next
  - c) Restarts the program
  - d) Jumps to the end of the program
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## Section C: Name / List (5 + 5 = 10 marks)

1. **Name any 5 HTML tags** you have learned (aside from `<html>` and `<body>`).  
(5 marks)
  
  2. **Name 5 built-in functions or modules in Python** that are often used in simple games (for example: `random`, `input`, ...).  
(5 marks)
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## Section D: Short / Medium Answer / Code Writing (15 marks)

1. **Define** (in 2–3 lines each):
  - a) Control statements
  - b) Iteration
  - c) Anchor / hyperlink in HTML
  
2. **Write a Python program** that asks the user to input two numbers, then prints which one is greater or if they are equal.
  
3. **Write HTML code** that shows:
  - A heading “My Hobby”
  - A paragraph describing your hobby
  - An image (you may choose `myhobby.jpg`) with width 300px

- A link to your favorite website labeled “Visit Site”
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## Section E: Debug / Complete / Find Errors (10 marks)

1. The following Python code has errors. Find and correct them:

```
num = input("Enter a number")
if num % 2 = 0:
 print("Even number")
else:
 print("Odd number")
```

2. Complete the HTML code below so that it becomes a valid, minimal HTML document (with proper `<!DOCTYPE>`, `<html>`, `<head>`, `<title>`, `<body>`), and add inside body a heading “Welcome” and a paragraph “I love coding.”

3. Below is a snippet for a number-guessing game. Fill in the blanks:

```
import random

secret = random.randint(1, 20)
guess = int(input("Guess the number (1-20): "))

if guess __ secret:
 print("Too low!")
elif guess __ secret:
 print("Too high!")
else:
 print("You guessed it!")
```

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## Section F: Higher-Order / Application / Design Question (5 marks)

Design (in pseudocode or Python) a simple **Quiz Game** with these features:

- Ask the user 3 multiple-choice questions.
  - Keep track of how many the user answered correctly.
  - At the end, display “You got X out of 3 correct.”
  - (Optionally) If the user scores 3/3, show a message “Excellent!”
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