

Q.1 A) SELECT CORRECT ALTERNATIVE AND REWRITE THE SENTENCES.**(4)**

- 1) HTML stands for :
 - a) High Text Markup Language
 - b) HyperText Markup Language
 - c) HyperTabular Markup Language
 - d) None of these
- 2) Which attribute is used to give alternate text to an image?
 - a) alt
 - b) src
 - c) Jext
 - d) title
- 3) Which method is easiest to convert binary to octal?
 - a) Group 4 bits
 - b) Group 3 bits
 - c) Divide by 8
 - d) Multiply by 2
- 4) In subtraction by 2's complement, if there is no carry, the result is :
 - a) Positive
 - b) Negative
 - c) Zero
 - d) None

B) ANSWER ANY TWO OF THE FOLLOWING.**(6)**

- 1) Explain with example binary number system conversion to its equivalent decimal system?
- 2) Differentiate between paired and unpaired tags with examples.
- 3) Convert following binary to its octal using shortcut technique
 - a) $(0110101110111111)_2$
 - b) $(11011010100010)_2$
 - c) $(0101101011010101010)_2$

Q.2 A) ANSWER ANY TWO OF THE FOLLOWING.**(6)**

- 1) Explain binary digit (bit), MSB, and LSB with example.
- 2) Explain any 3 types in HTML.
- 3) Write HTML code to display all six heading tags.

B) ANSWER ANY ONE OF THE FOLLOWING.**(4)**

- 1) Convert the following hexadecimal to binary using shortcut technique.
 - 1) COFFEE
 - 2) 6A7
 - 3) 2 BAD
 - 4) BED
- 2) Define HTML. Write three features of HTML.

Q.3 A) ANSWER ANY TWO OF THE FOLLOWING.**(6)**

- 1) Convert the binary number $(100110)_2$ to its Hexadecimal, Decimal and Octal equivalent.
- 2) Perform the following binary addition:
 - a) $(1110101010 + 110100111)_2$
 - b) $(1111 + 1001 + 111)_2$
 - c) $(10101 + 1101)_2$
- 3) Explain the tag with its any 2 attributes

B) ANSWER ANY ONE OF THE FOLLOWING.**(4)**

1. Explain RGB color coding in HTML with an example.
2. Perform binary arithmetics :
 - a) $10101 + 11011$
 - b) $1001 - 101$
 - c) $1011 + 110$
 - d) $10100 - 111$

Q.4 A) ANSWER ANY TWO OF THE FOLLOWING.**(6)**

- 1) Write the positional value of digit '7' in 734, 971, and 207.
- 2) Convert the octal number $(352)_8$ in Binary, Decimal and Hexadecimal.
- 3) Write HTML code to display text in red color, size in 5 and Comic Sans MS font.

B) ANSWER ANY ONE OF THE FOLLOWING.**(4)**

- 1) Write and explain the structure of a basic HTML program.
- 2) Perform subtraction using 2's complement: $110110 - 10110$.

Q.5 A) ANSWER ANY TWO OF THE FOLLOWING.**(10)**

- 1) Write a HTML program to show superscript and subscript (H_2SO_4 and $Na^+ Cl^-$). Add three paragraphs of 2-3 lines each aligned left, centre and right.
- 2) Write an HTML program with a heading and 2 paragraph of 4-5 lines each. Set background color to yellow and text color to blue.
- 3) Write an HTML program to insert an image with width = 200, height = 150 and alternate text. Also write a paragraph for image description.

OR**B) ANSWER ANY TWO OF THE FOLLOWING.****(10)**

- 1) Solve the following
 - a) $(10010)_2 = (?)_8 = (?)_{16} = (?)_{10}$
 - b) $(75)_8 = (?)_{10} = (?)_{16}$
- 2) Write an HTML program to create a table showing Decimal, Binary, Octal, and Hexadecimal equivalent values from 0-15.
- 3) Write an HTML program to display following output.

