St. Thomas' School, Sunari, Agra
Half-yearly Examination (2024-2025)
Class: VII
Subject: Computer Studies
Specimen Paper

M. Time: 2 hours   **MM: 80**

Name: _____   Section: _____   Roll no.: _____

Question 1: Choose the correct answer and write the correct option.   **[10]**

(i) In a spreadsheet, which of the following functions is used to calculate the sum of selected cells?
(a) AVERAGE()
(b) SUM()
(c) COUNT()
(d) MAX()

(ii) What does DBMS stand for?
(a) Data Basic Management System
(b) Database Management System
(c) Data Backup Management Software
(d) Database Management Software

(iii) Which tag is used in HTML to create a hyperlink?
(a) <link>
(b) <a>
(c) <href>
(d) <hyper>

(iv) In a spreadsheet, which feature allows you to automatically fill in cells with a sequence of numbers or dates?
(a) AutoFill
(b) AutoSum
(c) Fill Handle
(d) Fill Color

(v) What is the primary function of a primary key in a database?
(a) To allow duplicate entries
(b) To uniquely identify each record
(c) To link to external databases
(d) To sort the data

(vi) Which of the following is used to merge cells in a spreadsheet?
(a) Merge & Center
(b) Combine Cells
(c) Join Cells
(d) Group Cells

(vii) In HTML, which attribute is used to specify the URL of a linked page?
(a) src
(b) link

(c) href
(d) url

(viii) What does the term "cell reference" mean in a spreadsheet?
(a) The content of a cell
(b) The unique address of a cell
(c) The format of a cell
(d) The color of a cell

(ix) Which of the following is an example of a DBMS?
(a) Microsoft Excel
(b) MySQL
(c) Google Sheets
(d) Adobe Photoshop

(x) Which HTML element is used to define a table row?
(a) <table>
(b) <tr>
(c) <td>
(d) <th>

Question 2: Fill in the blanks with the correct answer. **[10]**
(i) The function _____ is used in spreadsheets to calculate the average of selected cells.
(ii) A _____ in a database is a set of data elements grouped in a table.
(iii) In HTML, the _____ tag is used to create a table header.
(iv) _____ is the feature in spreadsheets that allows text to continue on multiple lines within a cell.
(v) The _____ attribute in the <img> tag specifies the path to the image file.
(vi) A _____ key in a database must contain unique values for each record.
(vii) In spreadsheets, the _____ tool is used to filter data based on specific criteria.
(viii) In HTML, _____ are used to create bulleted or numbered lists.
(ix) _____ is the function in spreadsheets used to count the number of cells containing numbers.
(x) In DBMS, a _____ query is used to retrieve specific data from one or more tables.

Question 3: Write the following statements true or false. **[10]**
(i) The SUM function in spreadsheets adds together all the numbers in a range of cells.
(ii) The <p> tag in HTML is used to create paragraphs.
(iii) A DBMS is a software tool used to manage and organize large amounts of data.
(iv) In spreadsheets, you can only have one worksheet in a workbook.
(v) In HTML, the <div> tag is used to define a division or section in a document.
(vi) In a database, a primary key can have duplicate values.
(vii) You can change the font style of text in a spreadsheet.
(viii) The <head> tag in HTML contains the visible content of a web page.
(ix) In DBMS, data redundancy occurs when the same piece of data exists in multiple places.
(x) In a spreadsheet, you can apply conditional formatting to cells based on specific criteria.

Question 4: One-word answer type question. **[5]**
(i) Which tag in HTML is used to insert an image?
(ii) This feature in a spreadsheet allows you to apply a set of formatting options to a cell based on its content.
(iii) In a database, this term refers to a collection of related fields.
(iv) What function in a spreadsheet returns the highest value in a range?

(v) This HTML tag is used to create a numbered list.

Question 5: Define the following terms. **[5]**
(i) Worksheet
(ii) Foreign Key
(iii) Hyperlink
(iv) Conditional Formatting
(v) Data Integrity

Question 6: Application-based questions. **[6]**
(i) Priya is working on a school project and needs to calculate the total marks obtained by students in different subjects. Which function in a spreadsheet should she use?
(ii) Arjun wants to create a webpage for his school project that includes a link to another website. Which HTML tag should he use, and how should he specify the URL?
(iii) Sneha needs to ensure that each student in her class database has a unique roll number. Which database feature should she use to prevent duplicate roll numbers?
(iv) During a class assignment, Ravi was asked to create a table in HTML to display his weekly study schedule. Which HTML tags will he use to create rows and columns in the table?
(v) Meera wants to automatically apply a green background to all cells in her spreadsheet that contain a value greater than 80. Which spreadsheet feature should she use?
(vi) Rahul is designing a database for a library management system. He needs to retrieve all records of books borrowed by a particular student. What type of query should he use?

Question 7: Differentiate the following terms. **[4]**
(i) Workbook and Worksheet in a spreadsheet
(ii) Primary Key and Foreign Key in a database
(iii) and <ol> tags in HTML
(iv) Data Filtering and Data Sorting in a spreadsheet

Question 8: Short answer type questions. **[10]**
(i) Explain the importance of using a primary key in a database.
(ii) Describe how you can create a chart in a spreadsheet to represent data visually.
(iii) What are the advantages of using a DBMS over traditional file-based systems?
(iv) Discuss the role of the <table> tag in HTML and how it is used to create tables.
(v) What is the purpose of the "AutoFill" feature in spreadsheets?

Question 9: Long answer type questions. **[20]**
(i) Discuss the various types of charts available in a spreadsheet and their appropriate usage, with examples.
(ii) Explain the significance of HTML in web development, highlighting the role of different tags in structuring a webpage.
(iii) Compare and contrast a spreadsheet and a database, discussing the strengths and limitations of each in data management.
(iv) Design a simple HTML webpage that includes a heading, a paragraph, an image, and a hyperlink. Provide the HTML code and explain each part.
(v) Analyze the impact of data redundancy in databases and how it can be minimized using normalization techniques.