

Sample Paper

Course : CWT(Python) Version-II

Duration : 03:00 Hours

Maximum Marks : 180

Note:

- Attempt all questions in Section A-(2 marks each)
- All questions are compulsory in Section B-(5 marks each). However, out of 12 questions 6 questions will have additional questions as internal choices.
- All questions are compulsory in Section C-(15 marks each). However, out of 4 questions 2 questions will have additional questions as internal choices.

Section A

Q1. Which symbol is used as the shorthand for jQuery?

- a) None of the options
- b) the % sign
- c) the ? Sign
- d) the \$ sign

Q2. In the MVC architecture, the Model component is responsible for managing the site's visual appearance and colors.

- a) False
- b) True

Q3. An XML document that follows the correct syntax is called

- a) Well formed
- b) None of the options
- c) Well parametarized
- d) Mature

Q4. Files may be accessed in read-only mode.

- a) True
- b) False

Q5. Esc key is used to

- a) To delete the character
- b) To move the cursor to the end of the line
- c) To cancel the command
- d) To insert characters

Q6. Does the StAX parser work use the Pull API model?

- a) True
- b) False

Q7. Which CSS unit is considered relative and ideal for flexible layouts?

- a) Percentages
- b) Inches
- c) Points
- d) Pixels

Q8. The CSS properties that specify a text's font family, font size, font weight, and font style are collectively known as

- a) Font
- b) Text
- c) All of the options
- d) Size

Q9. A Python module is a file consisting of Python statements, functions, and classes that can be used in a program.

- a) False
- b) True

Q10. There are _____ relational operators in JavaScript.

- a) 5
- b) 8
- c) 6
- d) 7

Q11. Why are effective communication skills important in the workplace?

- a) Enhance teamwork and collaboration
- b) Increase productivity
- c) All of the above
- d) Improve customer satisfaction

Q12. Which technology is used to control the style and appearance of HTML elements?

- a) XML
- b) None of the options
- c) DIV
- d) CSS

Q13. Which SQL command is used to update existing records in a database table?

- a) Delete
- b) None of the options
- c) Update
- d) Insert

Q14. Which tag in HTML is used for creating an unordered list with bullet points?

- a)
- b)
- c)
- d) None of the options

Q15. The slide that is used to introduce a topic for the presentation is called the _____.

- a) Title slide
- b) Animation Slide
- c) None of the options
- d) Slide

Q16. The mysql.connector library allows Python programs to interact with MySQL databases.

- a) False
- b) True

Q17. The ability to adapt and remain flexible is an important employability skill for handling changing work conditions and responsibilities.

- a) True
- b) False

Q18. WWW is based on which model?

- a) Client-server
- b) Local-server
- c) 3-tier
- d) None of the options

Q19. Integrated circuits are the primary technology used in third-generation computers.

- a) True
- b) False

Q20. Which statement correctly describes the function of the break statement in Python?

- a) It terminates the entire program
- b) It can only be used in "while" loops
- c) It can only be used in "for" loops
- d) It skips the current iteration and continues with the next one

Q21. E-governance services at National level are provided by _____ Government of India.

- a) STATE
- b) All of the options
- c) Local
- d) National

Q22. Which Python function is used to open a file?

- a) Open()
- b) open()
- c) new()
- d) None of the above

Q23. Web browsing is limited to accessing information available in text format only.

- a) False
- b) True

Q24. Which Figma feature automatically saves design progress and helps prevent data loss during design work?

- a) A manual save button in the file menu
- b) Hourly exports to the local desktop
- c) Real-time cloud-based Auto-save
- d) Automatic backups to an external USB drive

Q25. Compression tools like ZIP or RAR permanently delete unnecessary files.

- a) False
- b) True

Q26. Which database component consists of attributes that can store specific values?

- a) Field
- b) Entity
- c) File
- d) Records

Q27. A subprogram can be called using a database link or by functioning as an external procedure.

- a) True
- b) False

Q28. Using `os.listdir()`, we can obtain the names of all files and subdirectories inside a particular directory.

- a) True
- b) False

Q29. Which statement correctly describes the purpose of the `else` block in Python exception handling?

- a) It handles exceptions occurring in the `try` block.
- b) It is executed if an exception occurs.
- c) It is executed only if an exception occurs.
- d) It is executed if no exception occurs in the `try` block.

Q30. How can teams perform remote work smoothly and efficiently?

- a) Printed File
- b) CD
- c) Google Workspace
- d) Tape

Section B

Q1. How do you handle challenges and find solutions in your work? Share an example of a problem you solved effectively.

Q2. Discuss the importance of the Properties Panel in Figma and how it provides different controls for different selected objects?

OR

Explain Django's "Batteries Included" approach and describe how it offers built-in features such as the Admin Panel.

Q3. Write a short on CSS?

Q4. a) How LAN is different from MAN?

b) What do you understand by the term search engine? Mention any two examples.

OR

What is Google Slides? Explain one feature and its benefit?

Q5. Describe how 2NF helps in removing partial functional dependencies from a database table. Give an example?

OR

Explain the advantages of using stored procedures in terms of efficiency and reusability with example?

Q6. What causes a ValueError during relative importing when a Python file is run as the main module?

OR

How do the ^ and \$ anchors help in accurately validating a complete string pattern such as an email ID?

Q7. What is meant by buffering in file operations? How does it improve or affect file writing performance?

OR

What is the function of the break keyword in loop statements? Explain.

Q8. What do you mean by XML Schema? Explain why XML Schemas are considered an improved version of DTDs?



Q9. Define the following terms:

a) Application Software b) Scanner c) Control Panel d) Taskbar e) Icons

Q10. Explain the purpose of different groups found in the Insert tab of Excel?

OR

Explain the groups available under the Insert Tab of Excel.

Q11. What are the advantages of using jQuery over JavaScript?

Q12. Explain the types of unordered lists in HTML with example?

Section C

Q1. A) Write a query to create a table named **Employees** with the following attributes: Employee_ID, Employee_Name, Department, Salary. Ensure that the Employee_ID column is set as the Primary Key.

(b) Insert at least three records into the Employees table using the following sample data:

- Employee_ID: 101, Employee_Name: 'Alice Brown', Department: 'HR', Salary: 45000
- Employee_ID: 102, Employee_Name: 'David Wilson', Department: 'IT', Salary: 60000
- Employee_ID: 103, Employee_Name: 'Robert Taylor', Department: 'Finance', Salary: 55000

(c) Write an SQL query to delete the record from the Employees table where the Department is 'Finance'.

(d) Write a query to select all records from the Employees table where the Salary is greater than 50000.

Q2. Write a Python Program to find the sum of digits of a given number.

OR

Write SQL queries to create a table named Orders with Order_ID, Customer_ID, Order_Date. Insert a record into the Orders table and display records where Customer_ID = 10.

Q3.

A	B	C	D	E
#	Volume	Length	Height	Width
1	10000	100	50	
2	23000	520	70	
3	25000	20	100	
4	40000	250	25	
5	60000	400	40	

Calculate the following formula using with cell reference

- 1) Calculate the Width of each item
- 2) Find the minimum height among the items listed
- 3) Calculate the no. of cells which have volume greater than 25000
- 4) Calculate the total length, height and width of items listed.

Q4. Write a program in JavaScript to add any five numbers.

OR

Write a program in JavaScript to find the sum of all elements of an array using the reduce() method.