

## Sample Paper

Course : CSD(JAVA) 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.** We can add Validations to a web page using \_\_\_\_\_.

- a) CSS
- b) JavaScript
- c) All of the options
- d) Tags

**Q2.** The <ul> tag is used to create an ordered list in HTML.

- a) False
- b) True

**Q3.** What is used in SQL to specify conditions that data in a table must satisfy

- a) Index
- b) Constraints
- c) Column
- d) Trigger

**Q4.** An applet can communicate with a servlet using which of the following methods?

- a) Socket Communication
- b) All mentioned above
- c) RMI Communication
- d) HTTP Communication

**Q5.** An IF statement may include any number of nested IF statements within it.

- a) True
- b) False

**Q6.** A computer does not allow files to be deleted permanently.

- a) True
- b) False

**Q7.** Which of the following function in excel is used to calculate Average of numbers.

- a) ADD()
- b) CALC()
- c) TOTAL()
- d) AVERAGE()

**Q8.** For which of the following bank accounts is the nomination facility provided?

- a) Recurring Deposit Account
- b) Saving Bank Account
- c) ALL of the options
- d) Fixed Deposit Account

**Q9.** Which RMI architecture layer handles client method calls and passes them to the remote object?

- a) Transport Layer
- b) Remote Reference Layer
- c) Application Layer
- d) Stub & Skeleton Layer

**Q10.** Which method is used for the authentication mechanism in the servlet specification?

- a) Form Based Authentication
- b) None of the options
- c) Both the options
- d) Role Based Authentication

**Q11.** A Message-Driven Bean performs business logic without maintaining client-specific state, similar to a stateful session bean.

- a) True
- b) False

**Q12.** Which action promotes effective communication?

- a) Use jargon and technical terms to impress the listener.
- b) Maintain eye contact and nod to show understanding.
- c) Interrupt the speaker to share your own experiences.
- d) Assume the listener understands without seeking clarification.

**Q13.** Improving employability skills is mostly the employer's responsibility rather than the individual's?

- a) False
- b) True

**Q14.** What does the <aside> tag represent in an HTML document?

- a) Content aside from page content
- b) A navigation list to be shown on the left side of the page
- c) Text that appears under aside
- d) The ASCII character-set to send information between computers on the Internet

**Q15.** Which of these technologies is used for storing data in the cloud?

- a) Tape Drive
- b) Dropbox
- c) CD Player
- d) Blu-ray Disc

**Q16.** In object-oriented programming, which access modifier is generally preferred for class data members?

- a) Public
- b) Private
- c) Protected
- d) Default

**Q17.** A server-side RMI component can operate without being deployed on the server.

- a) True
- b) False

**Q18.** Servlets cannot use the Mail API to send emails.

- a) False
- b) True

**Q19.** How can you make all paragraph (<p>) elements appear in bold using CSS?

- a) p {text-size:bold;}
- b) <p style="text-size:bold;">
- c) <p style="font-size:bold;">
- d) p {font-weight:bold;}

**Q20.** In object-oriented programming, which of the following is the correct representation of a constructor?

- a) ~classname()
- b) ()classname
- c) -classname()
- d) classname()

**Q21.** Which of the following is not a feature available in MS PowerPoint?

- a) Zoom
- b) Scan a virus
- c) Slide show
- d) Background color

**Q22.** In Java, AWT refers to which of the following?

- a) Absolute Windowing Toolkit
- b) None of the options
- c) Applet Windowing Toolkit
- d) Abstract Windowing Toolkit

**Q23.** What is the term used for an XML document that has the correct structure and syntax?

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

**Q24.** A class definition in C++ can include a nested class inside it.

- a) False
- b) True

**Q25.** Which option correctly defines SMTP in computer networking?

- a) Simple Message Transfer Protocol
- b) Simple Mail Transfer Protocol
- c) Service Message Transmission Permission
- d) Secure Message Transfer Protocol

**Q26.** A software package designed to create and manage documents is known as a word processor.

- a) False
- b) True

**Q27.** Java Message Service (JMS) is known as a service that enables message-based communication.

- a) False
- b) True

**Q28.** Which C++ input statement is equivalent to the C scanf () function?

- a) Cin>>
- b) None of the options
- c) Cout<<
- d) Printf()

**Q29.** There is no general agreement among employers about which employability skills are the most important.

- a) True
- b) False

**Q30.** Large files can be compressed to reduce storage size and allow easier email transmission.

- a) True
- b) False

## Section B

**Q1.** What do you understand by pointers? Explain the syntax for declaring pointers in C++ with an example.

**Q2.** a) Define CPU and explain the functions performed by it? b) Explain the reason why RAM is known as volatile memory.

**Q3.** Describe the procedure for passing parameters from an HTML page to a Java applet?

**OR**

What do you understand by components and containers in Java Swing? Describe their roles?

**Q4.** Explain the process of defining database credentials in a Hibernate configuration file.

**OR**

Explain the methods used to resolve circular dependency issues in Spring DI.

**Q5.** What are the five primary operations of a computer system? Explain each one in detail.

**Q6.** a) Describe the concept of E-mail and write any two advantages of E-mail? b) Define web browser and mention two examples of it?

**OR**

Define Endnote and Footnote features in MS Word and explain their purpose.

**Q7.** Write the steps to insert border and shading in Excel.

**OR**

Explain the following functions with example in Excel:

a) Sum(), b) Average(), c) Max(), d) Len(), e) Upper()

**Q8.** Describe the steps involved in validating mapping files at the time of startup.

**OR**

Define the Spring Framework and describe its role in simplifying Java enterprise development.

**Q9.** a) Write a short note on Exception Handling in java? b) What do you understand by errors in Java? Discuss their different types?

OR

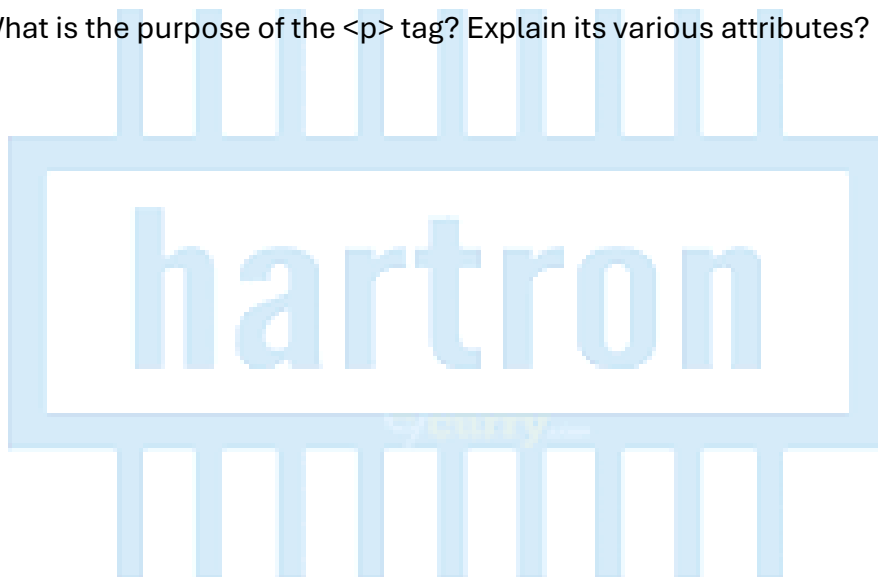
Explain the process of creating and organizing Java classes using packages with a suitable example?

**Q10.** Discuss the significance of teamwork in achieving common goals within an Organization?

**Q11.** Define:

(i) Candidate Key (ii) Primary Key (iii) Foreign Key (iv) Alternate Key (v) Composite Key

**Q12.** a) Explain the method of highlighting text in an HTML document with an example?  
b) What is the purpose of the <p> tag? Explain its various attributes?



## Section C

Q1.

|   | A        | B    | C    | D    | E    | F    | G    | H     |
|---|----------|------|------|------|------|------|------|-------|
| 1 | SALESMAN | JAN  | FEB  | MAR  | APR  | MAY  | JUNE | SALES |
| 2 | Radha    | 2000 | 1500 | 300  | 1400 | 1000 | 1400 |       |
| 3 | Monika   | 5000 | 1200 | 500  | 1200 | 1200 | 2800 |       |
| 4 | Rahul    | 3000 | 800  | 1200 | 3000 | 1500 | 3500 |       |
| 5 | Anjali   | 1000 | 900  | 1800 | 5000 | 1400 | 1200 |       |
| 6 | Mani     | 500  | 1000 | 2300 | 8000 | 1700 | 1400 |       |
| 7 | Arun     | 800  | 500  | 2400 | 1900 | 1800 | 1800 |       |
| 8 | Sukhjeet | 1200 | 1400 | 1500 | 700  | 2500 | 7000 |       |
| 9 | Amrita   | 1800 | 2500 | 1700 | 1500 | 2800 | 1800 |       |

Calculate the following using formulas with cell reference

- Calculate Total sales of each sales man?
- How many sales men are there in the table?
- How Many Salesman Achieved Target more than 10000.

Q2. Write a program in Java to create a class Square with methods to calculate area and perimeter (Enter input from user).

OR

Write a Java program using AWT to handle mouse press, mouse release, and mouse movement events.

Q3. Write a JavaScript program to find the length of a string without using the length property.

OR

Write a query to create a table named **Library\_Books** with the fields: Book\_ID, Book\_Name, Author\_Name, Category, Price.

- Set Book\_ID the Primary Key.
- Insert at least three book records into the table.
- Write an SQL query to remove the book record having Book\_ID 101.
- Write a query to select all books whose price is greater than 500.

Q4. Write a JSP program using session object to store username.



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