JavaScript Basics – Exam Paper

Time: 2 Hours
Instructions:
• Write JavaScript code for every question.
• Output may be shown in console, alert, or webpage.
• Do not use external libraries.
• Code clarity matters.

Section A – JS Introduction

Q1. Print "Application Initialized" in the console when the page loads.

Q2. Display the current date and time in an alert box.

Q3. Print the browser name and version in the console.

Q4. Change the web page title to "JS Exam Started" using JavaScript.

Q5. Display a message on the page confirming JavaScript is running.

Section B – JS Variables

Q6. Store a user's name, age, and login status in variables and display them.

Q7. Declare a constant tax rate using const and attempt to change its value.

Q8. Store a cart total in a variable, update the value, and display the result.

Q9. Swap the values of two variables without using a third variable.

Q10. Show the difference between var and let scope with an example.

Section C – JS Operators

Q11. Calculate sum, difference, multiplication, and division of two numbers.

Q12. Check whether a number is even or odd using operators.

Q13. Compare password and confirm password using strict comparison.

Q14. Check if user is premium AND cart value is greater than 5000.

Q15. Create a counter using increment and decrement operators.

Section D – JS If Conditions

Q16. Check age and display "Allowed" or "Not Allowed".

Q17. Display grade based on marks (A, B, C, Fail).

Q18. Display login success message if credentials are correct.

Q19. Display greeting based on current time (Morning/Evening).

Q20. Check balance and allow or deny withdrawal.

Section E – JS Loops

Q21. Print numbers from 1 to 100 using a loop.

Q22. Calculate total sum of array values using a loop.

Q23. Print multiplication table of any number.

Q24. Reverse a string using a loop.

Q25. Stop a loop when a specific value is found.

Section F – JS Strings

Q26. Capitalize the first letter of a user's name.

Q27. Validate email by checking @ and .

Q28. Count total characters in a string.

Q29. Remove extra spaces from a sentence.

Q30. Extract the last part (slug) from a URL.

Section G – JS Numbers

Q31. Convert string "4500" into a number.

Q32. Round a price to two decimal places.

Q33. Generate a random 6-digit OTP.

Q34. Check whether a value is a valid number.

Q35. Handle a calculation that results in NaN.