QP CODE: 25047330

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Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc PHYSICS

ELECTIVE - PH820301 - PROGRAMMING IN JAVA AND HTML

2019 ADMISSION ONWARDS

D22A7109

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What is called message passing in object oriented programming?
2. What are the different ways to give values to variables?
3. Distinguish between relational and logical operators in Java.
4. What are the benefits of using packages in Java?
5. What is an exception? How are they handled?
6. What are the essential classes for writing an applet code? Explain the corresponding methods.
7. Write and explain the purpose of anchor tag with an example.
8. How can you create checkboxes in HTML?
9. Write a note on comparison operators in Javascript.
10. What is the purpose of event handlers in javascript?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain the steps involved in creating and running application programs in Java.
12. Compare and contrast if statement and switch statement in Java.
13. Compare and contrast arrays and vectors in Java.
14. Write a program in Java to illustrate class definition and object creation.
15. Explain the concept of hierarchical inheritance with suitable example.

16. What is ordered list in HTML? Write and explain the HTML code to create it.

17. Describe Math and Date objects in javascript. How are they useful?

18. With an example explain the procedure for creating user defined functions in Javascript.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Describe decision making and looping statements in Java with example programs.

20. What is interface? Describe the procedure for implementing interface with example code.

21. What are the different ways to create threads in Java? Explain each with example.

22. Describe with example the procedure for creating tables in HTML.

(2×5=10 weightage)