

# **PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)**

**MSc DEGREE EXAMINATION DECEMBER 2023**  
**(Second Semester)**

## **Branch – APPLIED ELECTRONICS**

## VERILOG

Time: Three Hours

**Maximum: 50 Marks**

### **SECTION-A (5 Marks)**

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**Answer ALL questions**

**ALL** questions carry **EQUAL** marks

$$(5 \times 1 = 5)$$



**SECTION - B (15 Marks)**

### **Answer ALL Questions**

**ALL Questions Carry EQUAL Marks**

$$(5 \times 3 = 15)$$

- 6      a. Explain the Identifiers.  
              OR  
    b. Discuss the Relational Operators.

7      a. Discuss the Multiple-Input gates.  
              OR  
    b. Explain the MOS Switches.

8      a. Explain the Procedural Constructs.  
              OR  
    b. Illustrate Case statement.

9      a. Write short note on Module instantiation.  
              OR  
    b. Discuss the waveform generation.

10     a. Give application of PLAs.  
              OR  
    b. Explain the Routing.

Cont.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Discuss the Data types.  
OR  
b. Explain the Arithmetic and Logical operators with example.
- 12 a. Explain the Tristate gates.  
OR  
b. Discuss the Combinational UDP.
- 13 a. Discuss the Continuous assignment and Net-Declaration assignment.  
OR  
b. Explain the following statement  
(i) Conditional statement (ii) Loop statement.
- 14 a. Describe the system tasks and function.  
OR  
b. Explain the Reading vectors from a text file.
- 15 a. Discuss the PAL.  
OR  
b. Draw the basic architecture of data path controller and explain.

Z-Z-Z                  END