

[This question paper contains 2 printed pages.]

6003

Your Roll No.

B.Sc. (H) ELECTRONICS / III Sem. B

Paper – ELHP-305

Electronics Practical – V

(Admissions of 2010 and onwards)

Time : 1 Hr.

Maximum Marks : 25

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

*Attempt any five questions from Section – A.
& any ten questions from Section – B.*

SECTION – A

1. Convert the binary number $(100010)_2$ into its decimal value.
2. What combinational logic are OR-AND gates equivalent to ?
3. What is the operation of a D Flip-Flop ? What does D stand for ?
4. Define the race around condition in a JK FF.
5. Why is C++ an extendible language ?
6. What is a ternary operator in C++ ?
7. What does system ("pause") do in C++ ? (1×5)

P.T.O.

SECTION - B

1. If $V_{ref} = 5\text{ V}$ what will be the analog output for $(1010)_2$ in a 4-bit D/A converter?
2. Which basic logic gate can be used as a two bit parity checker? Explain with the help of a truth table.
3. Draw a Mod-4 counter using T Flip Flops.
4. Using a 7446 IC show the output on a seven segment display for the binary number $(1000)_2$?
5. If data $(100010)_2$ is loaded parallel into a shift left ring counter, what will the contents of the register be after 3 clock periods?
6. Use Full adder MSI blocks to add the following binary numbers: $(100)_2 + (110)_2$.
7. What is the difference between a local variable and a global variable? Give a suitable code in C++ to show the difference.
8. How does switch statement differ from nested if?
9. Define 'function prototype' in C++.
10. How is a pointer variable declared in C++?
11. What does a manipulator function do?
12. What is operator overloading?
13. What is the syntax for multiple inheritance in C++?

(2×10)

(300)****