

1461**Code : 15CS21T**Register
Number

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II Semester Diploma Examination, Nov./Dec. 2016**DIGITAL AND COMPUTER FUNDAMENTALS****Time : 3 Hours]****[Max. Marks : 100**

- Note :** (i) Answer any **six** questions from Part – A, each questions carries **5** marks.
(ii) Answer any **seven** questions from Part – B, each questions carries **10** marks.

PART – AAnswer any **six** full questions.

1. What is BCD and explain. **5**
2. Subtraction of 1010 from 1111 using 2's complement method. **5**
3. Write the laws of Boolean Algebra. **5**
4. Explain De-Morgan's theorem. **5**
5. What is the difference between a full-adder and half-adder ? **5**
6. List the applications of multiplexer. **5**
7. List the classifications of computers. **5**
8. List the software terminologies. **5**
9. What is the use of mouse and touch screen ? **5**

PART – B

Answer any **seven** full questions.

10. What is ASCII code ? Mention its applications. 10
11. How do you represent the number in excess-3 code and gray code ? 10
12. Write the truth table and logical symbols of basic gates. 10
13. Explain with a neat circuit and truth table the working of BCD to Decimal decoder. 10
14. Explain JK Master Slave Flip-Flop with truth table, logical symbol and logical circuit. 10
15. Explain the working of 4-bit Serial In Serial Out (SISO) with logical circuit and truth table. 10
16. Explain 4-bit synchronous Up/Down counters. 10
17. Draw a block diagram of computer system and explain. 10
18. Explain the working principles of Keyboard. 10
19. Write difference between primary memory and secondary memory. 10

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