

1215**Code : 15CS21T***Register
Number*

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II Semester Diploma Examination, Nov./Dec.-2018**DIGITAL AND COMPUTER FUNDAMENTALS****Time : 3 Hours]****[Max. Marks : 100**

- Instructions :** (1) Answer any **six** questions from Part – A. Each carries **5** marks.
- (2) Answer any **seven** full questions from Part – B. Each carries **10** marks.

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1. Explain ASCII Code. Mention any two applications of ASCII code.
2. List any five rules of Boolean algebra.
3. Write the truth table and logic symbol of NAND gate.
4. List the applications of multiplexer.
5. Explain D-Flip-flop with truth table.
6. Explain the first generations of computers.
7. List any five input devices.
8. Compare impact and non-impact printer.
9. What is high level language ? Write its advantages and disadvantages.

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PART – B

10. (a) What is BCD ? Explain with an example.
(b) Add 1111 and 1010 using 2's complement.
11. Solve the following :
(i) $(321)_{10}$ to binary
(ii) $(321)_8$ to decimal
12. Explain following logic gates with truth table :
(i) OR
(ii) AND
(iii) NOT
(iv) NAND
(v) XOR
13. Describe FULL ADDER with logic diagram and TRUTH TABLE.
14. Explain the working of 4-bit Serial-In-Parallel-Out (SIPO) shift register with logic circuit and truth table.
15. Explain 4-bit asynchronous ripple counter.
16. Draw a block diagram of computer system and explain.
17. Explain working of CRT display with figure.
18. (a) Compare RAM and ROM.
(b) Distinguish between primary memory and secondary memory.
19. Describe the following :
(i) Web Cam
(ii) DVD

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