

4640

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL-2019
DEEE - FIFTH SEMESTER EXAMINATION
DIGITAL ELECTRONICS**

Time: 3Hours]

[Max. Marks:80

PART-A**10x3=30M**

Instructions: 1) Answer all questions and each question carries 3 marks.
2) Answers should be brief and straight to the point and shall not exceed five simple sentences.

- 1) State De-Morgan's theorem.
- 2) Convert the following decimal numbers into hexadecimal numbers.
(a) 48_{10} (b) 523_{10} (c) 104_{10}
- 3) Classify digital logic families.
- 4) Define Fan-In and Fan-Out.
- 5) List the IC numbers of two input digital IC logic gates.
- 6) List any three applications of multiplexers?
- 7) Draw the half-adder circuit and verify its functionality using truth table.
- 8) What is necessity of clock in a flip-flop.
- 9) List any four applications of Flip-flops.
- 10) Compare static RAM and dynamic RAM.

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