

MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATIONS, MUMBAI

Examination, July 2014

CERTIFICATE COURSE IN HARDWARE TECHNOLOGY

[Ἑβρ—3 ἰεε^οε]

(BEthÉ NÖÉ—100)

[illegible]

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1. $\{x \in E \mid \exists y \in E, x \leq y \text{ and } y \leq x\} = \{x \in E \mid x \leq x\} = E$ 60
2. $\{x \in E \mid \exists y \in E, x \leq y \text{ and } y \leq x\} = \{x \in E \mid x \leq x\} = E$ 20
3. $\{x \in E \mid \exists y \in E, x \leq y \text{ and } y \leq x\} = \{x \in E \mid x \leq x\} = E$ 10
4. $\{x \in E \mid \exists y \in E, x \leq y \text{ and } y \leq x\} = \{x \in E \mid x \leq x\} = E$ 10

(ENGLISH)

[TIME ALLOWED — 3 HOURS]

(MARKS — 100)

BASIC AND DIGITAL ELECTRONICS (PRACTICAL-I)

Marks

- | | | |
|----|--|----|
| 1. | Using multimeter, test the given components and show to the examiner. | 60 |
| | (a) Semiconductor Diode | |
| | (b) Zener Diode | |
| | (c) LED. | |
| 2. | Sketch the symbols for basic gates and also draw the truth tables for these gates. | 20 |
| 3. | Oral exam. | 10 |
| 4. | Term work. | 10 |