

MAHARASHTRA STATE BOARD OF SKILL DEVELOPMENT EXAMINATION, MUMBAI

Examination--July, 2020

CERTIFICATE COURSE IN MECHANIC OF INDUSTRIAL ELECTRONICS

[Ἐϣ̅—3 ἰέε^ο]

(BEÜÉ NÜÉ—100)

[illegible]**NÍRÉ**

1. $\mathbb{E}[\mathbf{X}^{\text{a}}] \mathbb{E}[\mathbf{X}^{\text{b}}] = \frac{1}{2} \mathbb{E}[\mathbf{X}^{\text{a}} + \mathbf{X}^{\text{b}}] \mathbb{E}[\mathbf{X}^{\text{a}} + \mathbf{X}^{\text{b}}] + \mathbb{E}[\mathbf{X}^{\text{a}} - \mathbf{X}^{\text{b}}] \mathbb{E}[\mathbf{X}^{\text{a}} - \mathbf{X}^{\text{b}}]$. 40
2. $\mathbb{E}[\mathbf{X}^{\text{a}} \mathbf{X}^{\text{b}}] = \mathbb{E}[\mathbf{X}^{\text{a}}] \mathbb{E}[\mathbf{X}^{\text{b}}] + \mathbb{E}[\mathbf{X}^{\text{a}} - \mathbf{X}^{\text{b}}] \mathbb{E}[\mathbf{X}^{\text{a}} - \mathbf{X}^{\text{b}}] + \mathbb{E}[\mathbf{X}^{\text{a}} + \mathbf{X}^{\text{b}}] \mathbb{E}[\mathbf{X}^{\text{a}} + \mathbf{X}^{\text{b}}]$. 40
3. $\mathbb{E}[\mathbf{X}^{\text{a}}] \mathbb{E}[\mathbf{X}^{\text{b}}]$. 10
4. $\mathbb{E}[\mathbf{X}^{\text{a}}] \mathbb{E}[\mathbf{X}^{\text{b}}]$. 10

(ENGLISH)

[TIME ALLOWED — 3 HOURS]

(MARKS — 100)

**ELECTRONIC AND POWER ELECTRONIC DEVICES, CIRCUITS
AND APPLICATION (PRACTICAL-II)**

Marks

- | | | |
|----|--|----|
| 1. | Assemble and test Zener diode as voltage stabilizer. | 40 |
| 2. | Identify different types of sensors also write its industrial application. | 40 |
| 3. | Oral. | 10 |
| 4. | Term work. | 10 |