

MAHARASHTRA STATE BOARD OF SKILL DEVELOPMENT EXAMINATION, MUMBAI

Examination—July, 2020

CERTIFICATE COURSE IN BASIC ELECTRICAL ENGINEERING

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(BEÜÉ MÖÉ—100)

$$\frac{d}{dt} \left(\int_{\Omega} u^2 dx \right) = -2 \int_{\Omega} u \Delta u dx + 2 \int_{\partial \Omega} u \frac{\partial u}{\partial n} dS$$

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1. (+) $\hat{E}^{\otimes d}$ aEE VÉÉMÉE |É^Rú :—

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- [illegible]

(Eò) **SÁHò** Eòò **✱É®Á®** úíĒăĒ±Ē½đ :-

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- (1) $\int_{\mathbb{R}^n} f(x) dx = \int_{\mathbb{R}^n} f(x) dx$
- (2) $\int_{\mathbb{R}^n} f(x) dx = \int_{\mathbb{R}^n} f(x) dx$
- (3) $\int_{\mathbb{R}^n} f(x) dx = \int_{\mathbb{R}^n} f(x) dx$
- (4) $\int_{\mathbb{R}^n} f(x) dx = \int_{\mathbb{R}^n} f(x) dx$
- (5) $\int_{\mathbb{R}^n} f(x) dx = \int_{\mathbb{R}^n} f(x) dx$

(b) $\hat{E}^{\circ}(\text{Fe}^{3+}/\text{Fe})$ x $\hat{E}^{\circ}(\text{Fe}^{2+}/\text{Fe})$:-

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- (1) $\{\dot{E}0.\circ\dot{E}0.$
- (2) $+ \dot{E}^{\circ} \dot{u} B. B'' \dot{E}.$
- (3) $\circ\dot{E}0.\{\dot{E}0. \text{af}\dot{E}0$
- (4) $b_{\#} \text{af}\dot{E}0 b_{\#} \text{af}\dot{E}0 b_{\#} \text{af}\dot{E}0$
- (5) $b_{\#} \text{af}\dot{E}0 B. Bx \dot{E}.$

(ENGLISH)

[TIME ALLOWED—3 HOURS]

(MARKS—100)

**BASIC ENGINEERING AND BASIC COMPUTERS
OPERATING SKILL (THEORY-I)****Marks**

1. (a) Fill in the blanks :— 5
- (i) is use for remove nails from job in carpentry.
 - (ii) In the power point different page means
 - (iii) Screen is device.
 - (iv) is called to types of outside threading.
 - (v) is use for close the computer.
- (b) Match the pairs :— 5
- | ‘ A ’ Group | ‘ B ’ Group |
|--------------|-----------------------------|
| (i) Windows | (a) To plain wooden surface |
| (ii) Planner | (b) Inner threads |
| (iii) Tap | (c) Input device |
| (iv) Scanner | (d) Thread on rod |
| (v) Die | (e) Browser |
| | (f) Output device. |
- (c) State whether *true* or *false* :— 5
- (i) Flux is important for soldering.
 - (ii) To change the word size use bold.
 - (iii) On the formatting toolbar there are file, edit, view option.
 - (iv) Copper is ferrous metal.
 - (v) Brass is non ferrous metal.
- (d) State the long form :— 5
- (i) PC
 - (ii) RAM
 - (iii) CPU
 - (iv) WWW
 - (v) WAN

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2. Answer the following (any *two*) :— 16
- (a) Explain stop watch with sketch.
 - (b) Explain safety precaution in the work of tapping.
 - (c) What is non ferrous metal ? Give detail with example.
 - (d) Explain pipe die with figure.
3. Answer the following (any *two*) :— 16
- (a) Explain centre punch with sketch.
 - (b) Explain types of hammer with figure.
 - (c) Explain safety precaution to work outer thread.
 - (d) Give detail accessories is use in plumbing with figure.
4. Answer the following (any *two*) :— 16
- (a) What is importance of computer in office work in new generation?
 - (b) Explain marking tools are use in carpentry.
 - (c) Explain different types of printer and its use.
 - (d) What is saw ? Explain hack saw with figure.
5. Answer the following (any *four*) :— 16
- (a) Explain mallet with figure.
 - (b) Explain drill machine with figure.
 - (c) What is output device ? Explain in detail.
 - (d) What is advantage of network ?
 - (e) What is use of tennon saw ?
6. Answer in brief (any *two*) :— 16
- (a) Explain hamming tools are use in carpentry.
 - (b) Explain hand saw with figure.
 - (c) Explain different part of CPU with help of block diagram.
 - (d) Explain different types of chisels and detail any one with figure.
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