

**MAHARASHTRA STATE BOARD OF SKILL DEVELOPMENT EXAMINATION, MUMBAI**

Examination—July, 2020

## CERTIFICATE COURSE IN INSTRUMENTATION

[~~Ἔ~~ϣ—3 iEE<sup>o</sup>E]

(BEÜHÉ ~~MÖ~~É—100)

[illegible]**NÉÉ**

1. (+)  $\text{E}^{\oplus}\text{C}_6\text{H}_5\text{COO}^-$  VEÉMEÉ  $\text{I}^{\oplus}\text{U}$  ( $\text{E}^{\oplus}\text{C}_6\text{H}_5\text{COO}^-$ ) {HSE} :—

5

- (1) ..... ½p "É±É É±@ú ] ÒVÉÉ ½pÉÇ<. °É; ò Eò"ÉÉá
- (2) B±É. B"É. B°É. É +É@ú B"É. B°É. ½p ..... SÉá|ÉÉó@ú +É½É.
- (3) °ÉÉÉÉÇVÉÉÉ É±Éá ..... °ÉÉÇ<ÉVÉÉ ÉÉá ò-É |É ÉÉhÉÉÉÉ ÉÉÉ@ÉÉÉÉ.
- (4) ..... ½pÉÉÉ~ ò Eò-ÉÉó; ÉÉÉ@ÉÉÉÉ.
- (5) ½pÉÉ@ú É±ÉÉÉ@ú SÉÉ É±É° ] ò EóÉ=Éó ..... +É½p
- (6) É±óÉÉ É]É@É±É ½pÉÉÉ ..... ÉÉÉ@ÉÉÉÉ.

(२६) ई ई° ईईई® ई - ई ई ± ई ½ (ई ई ई ई ई ½) (ई ई) :-

5

- (1)  $b_0 + f_a B^o f$  (DOS)      (2)  $f_0 b_0 B_i b$  (PDF)
- (3)  $B \pm f B_a B_x f$  (LAN)      (4)  $+f^{\otimes} B^f. B^o f.$  (RMS)
- (5)  $^o f_0. B_x f. ^o f_0.$  (CNC)      (6)  $j_0 + f_a f. V f_0.$  (TIG).

(E0)  $J_{\mathbb{E}} + \mathbb{E} \nabla_{\mathbb{E}} \nabla_{\mathbb{E}} : -$

5

' + ' MÉ]õ

' ǂ ' MÉŋõ

- [illegible]

(b) ~~SECRET~~ <sup>(R)</sup>~~SECRET~~ <sup>(R)</sup> uiēā ē+ē½ē (ēēāēēē½ē) {ēēē} :-

5

- [illegible]



**(ENGLISH)**

[ TIME ALLOWED—3 HOURS ]

(MARKS—100)

**BASIC ENGINEERING AND COMPUTER SKILL (THEORY-I)****Marks**

1. (a) Fill in the blanks (any *five*) :— 5
- (i) ..... Cleans the malwares, trojan horse etc.
  - (ii) LMS and RMS are the types of .....
  - (iii) ..... Search engine is widely used over the world.
  - (iv) Keyboard is used for ..... purpose.
  - (v) Least count of Vernier caliper is .....
  - (vi) ..... is used as welding material.
- (b) State the long form of (any *five*) :— 5
- (i) DOS                      (ii) PDF                      (iii) LAN
  - (iv) RMS                      (v) CNC                      (vi) TIG.
- (c) Match the pairs :— 5
- | ‘ A ’ Group   | ‘ B ’ Group       |
|---------------|-------------------|
| (i) Hammer    | (a) MS-Office     |
| (ii) Monitor  | (b) Memory Device |
| (iii) Length  | (c) Output Device |
| (iv) Document | (d) Carpentry     |
| (v) Ram       | (e) Meter.        |
- (d) State whether *true* or *false* (any *five*) :— 5
- (i) The SI unit of Weight is Kg.
  - (ii) Using print screen button, screenshot of active screen can be taken.
  - (iii) Antivirus cleans the necessary data.
  - (iv) Mould can be designed by using plastic.
  - (v) Software is a computerized program.
  - (vi) Yahoo is search engine.
2. Attempt any *two* of the following :— 16
- (a) Define Unit. Explain the concept of least count.
  - (b) List the various hand tools used in carpentry shop. Write their safety rules while using them.
  - (c) List the various types of spanners, screw drivers used in fitting shop. Explain the selection of hacksaw blades.
  - (d) Discribe the procedure for joining of sheets.

[ turn over

3. Attempt any *two* of the following :— 16
- (a) State the different types of welding and explain any of them.
  - (b) Enlist the different parts of lathe machine with suitable diagram.
  - (c) Explain the working operation of shaper machine and write its application.
  - (d) Distinguish between surface grinder and cylindrical grinding with neat diagram.
4. Give brief answer of any *two* of the following :— 16
- (a) Explain the overview of note pad and word pad.
  - (b) Describe Virus and types of antivirus program.
  - (c) Explain the concept of LAN and WAN.
  - (d) Explain basic internal and main external DOS commands.
5. Write short notes on (any *four*) :— 16
- (a) Die casting machine
  - (b) Types of moulds
  - (c) Importance of CNC machine over main production process
  - (d) Concept of loading of operating system.
  - (e) Use of various search engines.
6. Attempt any *two* of the following :— 16
- (a) State the concept of worksheet with its features and limitation of MS-Excel.
  - (b) Describe the procedure of loading drivers in a system.
  - (c) Write about the concept of word document with its features and limitation of MS-Word.
  - (d) Write uses of the followings.
    - (i) Header and footer                      (ii) Macros
    - (iii) Internet                                      (iv) Memory devices.
-