

**MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATIONS, MUMBAI**

Examination, July, 2014

## CERTIFICATE COURSE IN CARPENTER (FOR HANDICAPPED)

[ἑἶς—3 ἰἑῶῆ]

(BEthÉ NÖÉ—100)

**E<sup>+</sup>E<sup>+</sup> (E<sup>+</sup>+1)**

- [illegible]

NIE

[illegible]

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- (1) +EEdobEIE E`EEdO 1/2pEVEa +EaEIEEdIEO EUpu (EEbhaEE`OE` 0 ÷ ..... EE(E@WEEIE.  
(+) O`EbE` EEEdEE EEEdO@u (aE) iEE`OE {E}E`EEO  
(Ed) MEaEE@u EEEdEE xEECaEE (bE) I`OE@u {E}E`EEO.
- (2) +MEnd +bSEhEOsaEE E`EdhEO EUpu (EEbhaEE`OE` 0 ÷ ..... EE(E@WEEIE.  
(+) EME@UEO]o (aE) bEaEE`EO]o  
(Ed) 1/2pE`EbAE (bE) ENE`E+Ed]o
- (3) +EaEEuEO EE@saEE {EEaEEEO }EEdO ÷ ..... EEVEEE EEEd+EdO +OEIEIE.  
(+) +EiEO+E (aE) EE1/2pE+E  
(Ed) E@E (bE) JE+EEO+E.
- (4) +EEEdobESaEE EdobEEO OE`EEaE@u@EE +EJhaEE`OE` 0p ..... EE(E@WEEIE.  
(+) +EJEhEO (aE) E`E;EEVEEO  
(Ed) JEIEE`EhEO (bE) +EaE@u EdEE@u
- (5) +`EVEb+nOEVEEaEE ZEEdEEEE VEE`OE +EEEOEaEE +EVE@uE`E`E 1/2pEME iaEEsaEE  
VEEdhEOIE ..... E`EVEEME@ EE(E@WEEIE.  
(+) {EE+EEd]o E`EVEEME@ (aE) {E}E]E E`EVEEME@  
(Ed) ]EO@E E`EVEEME@ (bE) ]E E`EVEEME@.
- (6) {EaEE`EEdE@u OE`E`EaEE E`OE+aEE`E@u iaEEEE EdE1/2 EdE3/EOEE` 0 PE^o (EEdobE  
`aEhaEE`OE` 0 ..... EE(E@WEEIE.  
(+) EEbO (aE) `VEO` E`Eb÷  
(Ed) +ME@u (bE) {EVEE 1/2pIEEbO.
- (7) +EEEdobESEO`EEd EEfEhaEE`OE` 0 ..... OEaEE EE(E@WEEIE.  
(+) ]EO@E OEaEE (aE) JE(EOSEE OEaEE  
(Ed) bE@E OEaEE (bE) EE]EOE OEaEE.
- (8) +EEEdOb÷VE+EnMEIEOEa PEE`EhaEE`OE` 0 ..... EdxE`OE EE(E@WEEIE.  
(+) MEaE EdxE`OE (aE) EJEEdhEO EdxE`OE  
(Ed) EE;EEd EdxE`OE (bE) SEE@OE EdxE`OE.



3. JEE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

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(+) मापणाच्या कोणत्याही चार साधनांची माहिती लिहा.

(+) JEE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

(E) E+E/2 |E|XEE=KEE E+E/2 (EdhEiE) nE:—

(b) +EEObESa oEhE 1/2hEa Ee? oEhEESaE iE {E-UEO oE]o EoE.

4. IEEbE+EEI =KEE E+E/2 (EdhEiE) nE:—

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(+) JEE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

(+) EoE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

(E) सुतारकामात वापरल्या जाणाऱ्या खिळ्यांचे चार प्रकार स्पष्ट करा.

(b) सुतारकामात वापरल्या जाणाऱ्या सरसचे चार प्रकार स्पष्ट करा.

5. IEEbE+EEI E|E| E+E/2 (EdhEiE) S:—

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(+) =SE+EO oEhE E+E/2

(+) {E+E/2 oEhE E+E/2

(E) EObE EObE (EUE +EE)

(b) +E+EbE (Aldrop)

(<) 'VEO' E|E|b: ('G' Clamp).

6. JEE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

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(+) oEhE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

(+) oEhE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

(1) EObE (2) {EUE 1/2hEa

(E) oEhE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

(1) iEE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

(b) oEhE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

(1) EUE+FO+E |E|XEE=KEE E+E/2 (EdhEiE) nE:—

**(ENGLISH)**

[TIME ALLOWED — 3 HOURS]

(MARKS — 100)

**CARPENTARY (THEORY-I)***Instructions.*—(1) Attempt all questions.(2) Draw neat sketches wherever *necessary*.(3) Figures to the right indicate *full* marks.**Marks**1. (A) Fill in the blanks from the choice given below (any *ten*) :—

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(i) Chisel is used to make a rectangular hole in the wood.

(a) Mortise Chisel (b) Paring Chisel

(c) Gouge (d) Firmer Chisel.

(ii) ..... is used to drill a hole in awkward places.

(a) Gimit (b) Dolemit

(c) Hand drill (d) Gimlet.

(iii) Both the legs of an inside Caliper are bent .....

(a) Inward (b) Outward

(c) Upward (d) Downward.

(iv) ..... is used to draw a line parallel to an object's side.

(a) Scriber (b) Divider

(c) Marking Gauge (d) Inside Caliper.

(v) Hinge is used to provide enough support to heavy doors .....

(a) Parliament Hinge (b) Strap Hinge

(c) Butt Hinge (d) 'T' Hinge.

(vi) To press and hold the sunmica pasted on plywood for some time, they are held together in a .....

(a) Bevel Square (b) 'G' Clamp

(c) Pincer (d) Claw Hammer.

(vii) ..... Joint is used to increase the width of wood.

(a) Butt Joint (b) Lap Joint

(c) Dovetail Joint (d) Mortise Joint.

(viii) ..... File is used for filling the wood very fast.

(a) Round File (b) Triangular File

(c) Rasp File (d) Square File.

(ix) An Artificial wood made by joining rectangular wooden strips and pasting thin wooden strips on both the surfaces is called .....

(a) Plywood (b) Particle Board

(c) Block Board (d) Laminated Board.

(x) The Glue made by mixing lime-water and a substance derived from curd is called as .....

- (a) Animal Glue                      (b) Fish Glue  
(c) Synthetic Glue                  (d) Casein Glue.

(xi) ..... Nail is used while increasing the width of the wooden planks.

- (a) Wrought Nail                      (b) Dove Nail  
(c) Tacks                                (d) Wire Nail.

(xii) ..... Saw is used to cut the wood in circular shape.

- (a) Tenon Saw                          (b) Compass Saw  
(c) Dovetail Saw                      (d) Hand Saw.

(B) Match the following pairs (any *ten*) :—

10

" A " Group

" B " Group

- |                          |                                     |
|--------------------------|-------------------------------------|
| (i) Gouge                | (a) Increase the length of wood     |
| (ii) Gimlet              | (b) Check right angles and flatness |
| (iii) Mallet             | (c) Protection of wood              |
| (iv) Bevel Square        | (d) Riveting                        |
| (v) Try-Square           | (e) Hold the open windows           |
| (vi) Four Flod Foot Rule | (f) Marking in various angles       |
| (vii) Smoothing Plane    | (g) Strike on a chisel              |
| (viii) Piano Hinge       | (h) Drill small hole for screw      |
| (ix) Hooks               | (i) Measure wood                    |
| (x) Simple Lap Joint     | (j) Cut wood concave and convex     |
| (xi) Varnishing          | (k) Doors of almirah                |
| (xii) Ball Peen Hammer   | (l) Smoothen a wooden surface.      |

2. Attempt the following questions (any *two*) :—

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- (a) Write in brief about any four types of Chisels.  
(b) Write in brief about any four types of Saws.  
(c) Write in brief about any four types of Boaring (Drilling) Tools.  
(d) Draw a neat diagram of an Iron Plane and write its advantages over a Wooden Plane.

3. Attempt of the following questions (any *two*) :—

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- (a) Briefly explain any four Measuring Tools.  
(b) Briefly explain the Marking Gauge with a neat diagram.  
(c) Write the advantages of Artificial Wood and name its types.  
(d) What is meant by Protection of Wood ? Briefly explain any three processes of protecting the wood.

[ Turn over

- 4 Attempt the following questions (any *two*) :— 16
- (a) What is meant by a Lap Joint ? Explain any two types of lap joints with neat diagrams.
  - (b) Explain the following with neat diagrams :—
    - (i) Mortise and Tenon Joint
    - (ii) Dovetail Joint.
  - (c) Briefly explain any four types of Nails used in carpentry.
  - (d) Briefly explain any four types of Glues used in carpentry.
- 5 Write short note on the following (any *four*) :— 16
- (a) Rising Butt Hinge.
  - (b) Parliament Hinge.
  - (c) Rim Lock.
  - (d) Aldrop.
  - (e) ' G ' Clamp.
- 6 Attempt the following questions (any *two*) :— 16
- (a) Draw a neat diagram of a Carpentry Table.
  - (b) Draw neat sketches of the following tools :—
    - (i) Bevel Square,
    - (ii) Claw Hammer.
  - (c) Draw neat sketches of the following tools :—
    - (i) Paring Chisel,
    - (ii) Tenon Saw.
  - (d) Draw neat sketches of the following tools :—
    - (i) Compass Saw
    - (ii) Rasp File.
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