

MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATIONS, MUMBAI

Examination, July 2014

CERTIFICATE COURSE IN HOUSE PIPE FITTING

[Ἑβρ—3 ἰεε^οε]

(BEthÉ NÖÉ—100)

1/4 ▷ 0°E {EÉ<(E Ê; ò] 0Mú(EIÉ+®0-1)

- ἡμεῖς. — (1) ὁ θεὸς ἰσχυρὸς ὁμοῦ ἐν ἡμῶν + ἐν ἡμῶν.
 (2) + ἐν ἡμῶν ἰσχυρὸς ὁμοῦ + ἐν ἡμῶν ἐν ἡμῶν.
 (3) = ἡμεῖς ὁμοῦ + ἡμεῖς ὁμοῦ ἡμεῖς ὁμοῦ.

NÖÖ

1. (+) E[®]E^aE^eVÉMÉE ;E[®](E^eEⁱEⁱ) {E^eE} :-

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- [illegible]

[illegible]

5

- [illegible]

$$(E_0) \quad J_{EE} + E_0 + E \quad \circ \nabla_{EE} \quad \circ \{E^1\} \tilde{o} \quad E_0^{\otimes 2} \quad (E_0 \nabla_{EE} E_1^a E_1^{1/2}) \quad \{E_1^E\} \quad :-$$

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- $$\begin{array}{ll} (1) \quad \circ \text{fa} \circ \text{u} & (2) \quad \text{E} \circ (\text{fE} \pm \text{fME}) \\ (3) \quad \circ \text{fE} \circ \text{fE} \quad \{\text{fE} < \text{fE}\} & (4) \quad \frac{1}{2} \text{h} \quad \text{O} \pm \text{fE} \text{fE} \text{fE} \\ (5) \quad \text{fE} \text{fE} \quad \frac{1}{2} \text{fE} \text{fE} & (6) \quad \text{VE} \text{O} \cdot + \text{fE} \text{fE} \cdot \quad \{\text{fE} < \text{fE}\} \end{array}$$

(b) ~~VÉÉb÷É VÉÖýÉE :-~~

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‘ + ’ MÉTõ

‘**ꠘꠞ**’ MĒŋ

- | | |
|--|---|
| (1) ${}^{\circ}\text{E}\dot{\text{O}}\{\text{E}\dot{\text{O}}\}^{\frac{1}{2}}\text{E}\dot{\text{O}}$ | (+) $\text{iE}\dot{\text{O}}\text{E} \text{ qEEJEE}$ |
| (2) $\text{G}\dot{\text{O}}\text{P}\dot{\text{E}}$ | ($\dot{\text{E}}$) $\text{ME} < \text{E} \div \{\pm \text{E}\} \dot{\text{O}}$ |
| (3) $\text{E}^{\text{E}}\text{E}^{\text{E}}\text{E}^{\text{E}}\text{E}^{\text{E}}$ | (E $\dot{\text{O}}$) $\{\text{EE}\dot{\text{O}}\text{ME} \text{ EE}^{\text{E}}\text{EE}^{\text{E}}\} \dot{\text{O}}$ |
| (4) $\text{bE}^{\text{a}}\text{E}^{\text{O}}\text{E}\dot{\text{O}}$ | (b-) $\text{PE}^{\text{E}}\text{ME}\dot{\text{O}}\text{E} \{\text{EE} < \text{EE} \pm \text{EE} < \text{EE}\}$ |
| (5) $\frac{1}{2}\text{E}\dot{\text{O}}$ | (<) '] $\dot{\text{O}}$ ' $\text{VEE} < \text{E}] \dot{\text{O}}$ |
| | (i $\dot{\text{O}}$) $\pm \text{E}^{\text{E}}\text{E}^{\text{E}} \text{ aEE}^{\text{E}}\text{EE}^{\text{E}} \{\text{EE} < \text{EE}\}$ |

2. जीएफोए [ए]खेसो =केठु तए (एधेईए) नमः :- 16
- (+) {ए<ए @सेओ +एबिओ एधेई i'एस'ए {एमेमे xए'ए तए.
 (५) {ए<ए ए]@से = {ए'एमे' एमे' ए {ए<ए ए]@से एग'ए +एबिओ'ए/प' ए']ओ ए'.
 (Eo) {ए<ए ±ए<ए'ए' ए'ए'ए'ए'ए'ए' = {ए'ए' ए'ए'ए'.
 (b) VEO. +ए'ए. {ए<ए'ए' ए'ए'ए'ए'ए'ए' = {ए'ए' ए'ए'ए'.
3. जीएफोए [ए]खेसो =केठु तए (एधेईए) नमः :- 16
- (+) प्लम्बिंगसाठी वापरण्यात येणाऱ्या काणसची आकृतीसह माहिती द्या.
 (५) {ए<ए ±ए<ए]@]मेसा [ए'ए'ए' ए'ए'ए' ए' एधेई'ए'ए' BE' [ए'ए'@से' 'ए'ए'ए' तए.
 (Eo) ए'@'@']ओ {ए<ए]@]मे' ए'ए' ए'ए'ए']@' तए.
 (b) पाईप फिटिंगसाठी वापरण्यात येणाऱ्या उपांगाची यादी करा.
4. जीएफोए [ए]खेसो [ए]बे'ए'ए' =केठु तए (एधेई'ए'ए' नमः) :- 16
- (+) VEO. +ए'ए. {ए<ए VEO'ए' ए'ए' ए'ए'ए' 'ए'ए'ए' ए'ए'ए'.
 (५) <X]@]मे' स'ए'@'ए' 'ए'ए' ए'ए'ए' ए'ओ.
 (Eo) पाण्यासाठी वापरण्यात येणाऱ्या पाईपसाठी वापरण्यात येणाऱ्या कोणत्याही एका [ए'ए'@'ए' VEO'ए' ए'ओ ए'ओ ए'ए'ए'.
 (b) {±'ए' 'ए'ए' ए' = {ए'ए'ए'ए' 'ए'ए'ए' ए'ए'ए' ए' ए'ए'ए'ए' ए'ओ ए'ए'ए' 'ए'ए'ए' 'ए'ए'ए' ए'ए'ए'.
5. [ए]खे ए'ए' (एधेई'ए'ए' स'ए'ए' :- 16
- (+) {ए'ओ. ए'ओ. {ए<ए'ए' [ए'ए'ए'
 (५) <X'ए'ए'ए' स'ए'ए'
 (Eo) G.I. {ए<ए'ए' ए'ए'ए']ओ'ए'ए'
 (b) 'ए'ए' ए'ए'
 (<) 'ए'ए' ए'ए'
6. जीएफोए [ए]खेसो [ए]बे'ए'ए' =केठु तए (एधेई'ए'ए' नमः) :- 16
- (+) ए'ओ'ए'ए' ए' ए'ओ'ए'ए' {ए<ए' ए' 'ए'ए'ए' ए'ए'ए'.
 (५) ए'ओ. +ए'ए. {ए<ए'ए']ओ'ए'ए' ए' ए'ए'ए' ए'ए'ए'.
 (Eo) ए'ओ'ए'ए'ए'ए'ए' ए'ए'ए' ए' i'एस'ए {एमेमे xए'ए तए.
 (b) ए'ओ'ए'ए'ए'ए'ए' [ए'ए'ए' BE' [ए'ए'@'से' 'ए'ए'ए' तए.

(ENGLISH)

[TIME ALLOWED — 3 HOURS]

(MARKS — 100)

HOUSE PIPE FITTING (THEORY-I)

- Instructions.*—(1) Attempt *all* questions.
 (2) Illustrate your answers with neat sketches, wherever necessary.
 (3) Figures to the right indicate *full* marks.

Marks

1. (a) Fill in the blanks (any *five*) :— 5
- (i) A pipe accessory having shape like ' + ' is called as
 - (ii) For giving direction to the pipe at the time of thread cutting is used.
 - (iii) G. I. pipe accessories have cutter a
 - (iv) At the low pressure purpose a pipe which is made up of is used.
 - (v) To control the flow of pipe line is used.
 - (vi) Capacity of P.V.C. pipe is measured in unit.
- (b) State *true* or *false* (any *five*) :— 5
- (i) Spirit level is used for pipeline level.
 - (ii) A ' C ' class pipe have minimum thickness.
 - (iii) Outside diameter of P.V.C. pipe determines it's size.
 - (iv) A green strip is painted on ' A ' class.
 - (v) Bottle trap should not joined to the outlet pipe.
 - (vi) A main part of die set is called as handle.
- (c) Define the following (any *five*) :— 5
- | | |
|-----------------|------------------|
| (i) Sewer | (ii) Coupling |
| (iii) Soil Pipe | (iv) Ventilation |
| (v) Manhole | (vi) G.I. Pipe. |
- (d) Match the pairs :— 5
- | ' A ' Group | ' B ' Group |
|-------------------|-------------------------------|
| (i) C.P.V.C. | (1) Three branches |
| (ii) Cross | (2) Guide plate |
| (iii) Reducer | (3) Packing purpose |
| (iv) Die stock | (4) House pipe line |
| (v) A black paste | (5) ' T ' Joint |
| | (6) Small size diameter pipe. |

[Turn over]

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|---|----|
| 2. Give the answers (any <i>two</i>) :— | 16 |
| (a) Draw a neat sketch of pipe wrench and labelled to its parts. | |
| (b) Give the usage of pipe cutter and explain the procedure of pipe cutter. | |
| (c) Suggest the safety precautions taken for pipe line. | |
| (d) Give specifications of G.I. pipe classess. | |
| 3. Give the answers of following (any <i>two</i>) :— | 16 |
| (a) Explain the files used in plumbing with neat labelled sketch. | |
| (b) Give the types of pipeline testing and describe any one type. | |
| (c) Give short note on storage tank pipe fitting. | |
| (d) List the pipe fitting accessories. | |
| 4. Give answers of following (any <i>two</i>) :— | 16 |
| (a) Write on G.I. pipe joint. | |
| (b) Explain the importance of intercepting chamber. | |
| (c) Write the procedure of any one type of joint used. | |
| (d) Write on precaution taken for plumbing tools and equipments. | |
| 5. Write short notes (any <i>four</i>) :— | 16 |
| (a) Types of P.V.C. pipe | |
| (b) Inspection chamber | |
| (c) G.I. pipe specification | |
| (d) Manhole | |
| (e) Ball valve. | |
| 6. Give the answers in brief (any <i>two</i>) :— | 16 |
| (a) Write on ventilation and ventilating pipe. | |
| (b) Give advantages and dis-advantages of C.I. pipes. | |
| (c) Draw a neat sketch of Hacksaw with labeling. | |
| (d) Give list of various types of valves and explain any one type of valve. | |
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