

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

Examination, July 2014

# CERTIFICATE COURSE IN DIESEL ENGINE MECHANIC

[**ἔα**—6 i*ἔ*°*ἔ*]

(BEÚÉ NÖÉ—200)

$$\langle \hat{H}/\epsilon \epsilon + \hbar b \div \rangle^a \hat{B} \pm \epsilon \hat{\Gamma}^o \hat{\Gamma}^o ] \text{œ} (|\hat{\epsilon} i^a \hat{\epsilon} i \hat{\epsilon} 0 - 2)$$

- [illegible]

**NÉE**

1.  $\int_{-\infty}^{+\infty} \delta(x) dx = 1$  **BE0**  $\int_{-\infty}^{+\infty} \delta(x) dx = 1$  :—

110

- (+) ከከፊልፎ ~~አ/የ~~አ/የሰው 1/2 ኃይል + ሰውነት በጥቅም ስላለው ፍጥነት የሚሰራው ይገኛል።  
 (ቁ) ከከፊልፎ ~~አ/የ~~አ/የሰው 1/2 ኃይል + ሰውነት በጥቅም ስላለው ፍጥነት የሚሰራው ይገኛል።  
 (ወ) ከከፊልፎ ~~አ/የ~~አ/የሰው 1/2 ኃይል + ሰውነት በጥቅም ስላለው ፍጥነት የሚሰራው ይገኛል።  
 (b) ከከፊልፎ ~~አ/የ~~አ/የሰው 1/2 ኃይል + ሰውነት በጥቅም ስላለው ፍጥነት የሚሰራው ይገኛል።  
 (<) ከከፊልፎ ~~አ/የ~~አ/የሰው 1/2 ኃይል + ሰውነት በጥቅም ስላለው ፍጥነት የሚሰራው ይገኛል።  
 (j) ከከፊልፎ ~~አ/የ~~አ/የሰው 1/2 ኃይል + ሰውነት በጥቅም ስላለው ፍጥነት የሚሰራው ይገኛል።

2.  $\int_{\mathbb{R}^n} f(x) dx = \int_{\mathbb{R}^n} f(x) dx$  **BE0**  $\int_{\mathbb{R}^n} f(x) dx = \int_{\mathbb{R}^n} f(x) dx$  :-

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- [illegible]

3.  $\mathbb{R}^n$  is a vector space.

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4.  $\neg \exists x (x \in \emptyset \wedge x \in \emptyset)$

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**(ENGLISH)**

[TIME ALLOWED — 6 HOURS]

(MARKS — 200)

**ENGINE AND FUEL SYSTEM (PRACTICAL-II)***Instructions.*—(1) All questions are *compulsory*.(2) Figures to the right indicate *full* marks.

(3) Draw a neat sketches, wherever necessary.

**Marks**

- |  |     |
|--|-----|
| 1. Solve any <i>one</i> from the following :—  | 110 |
| (a) Carry-out compression test on given engine, inspect, repairs, report and start the engine.             |     |
| (b) Dismantle the engine head check, inspect, repair and re-assemble same and re-start the engine.         |     |
| (c) Dismantle the injectors of given engine, test, inspect, report, repair, refit and re-start the engine. |     |
| (d) Dismantle the Crankshaft of given engine check, inspect, refit and start the engine.                   |     |
| (e) Check the given inline fuel injection pump suggest the necessary repairs and refit the same.           |     |
| (f) Dismantle the Crankshaft of given engine check, inspect, refit and start the engine.                   |     |
| 2. Solve any <i>one</i> from the following :—  | 50  |
| (a) Check the condition of fan belt and do the necessary repair.   |     |
| (b) Draw the lubrication system diagram of given engine.   |     |
| (c) Draw the starting circuit diagram.   |     |
| (d) Draw the inline fuel injection system diagram.   |     |
| (e) Draw the chart of periodic maintenance scheduled of given four wheeler.                                |     |
| (f) Draw the Valve Timing diagram of given four stroke C. I. engine.                                       |     |
| 3. Oral.   | 20  |
| 4. Term Work.  | 20  |

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