

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

Examination, July 2014

## CERTIFICATE COURSE IN ROAD CONSTRUCTION

[Ἐξ—3 ἰεῖοῖ]

(BEthÉ NÖÉ—100)

$$\textcircled{R} \frac{\partial}{\partial t} + \textcircled{M} (\nabla^2 - 1)$$
$$\textcircled{\text{E}}\text{E}\text{X}\text{E}-(1) \quad \textcircled{\text{E}}\text{E}\text{C} \mid \text{E}\text{I}\text{X}\text{E} \quad \textcircled{\text{E}}\text{E}\text{D}\text{E}\text{H}\text{E}\text{A} + \text{E}\text{E}\text{P}\text{E}\text{O}$$

# NÉE

1. 30 "E0. + M<sup>(6)</sup>M<sup>(8)</sup>i GôPÉ °Eé¶Exé {+E}ô Eo<sup>E</sup>. [Ei°E0 <x] Oü½f°EE` ð [E°÷ØEö÷ ±E½¶E 80  
EnúæEE +E½E. iæEEff` ð OföØEÅO ¶EEEE. bā öE 100.0 m PaEE.

+ .Gò.	+M <sup>f</sup> u <sup>f</sup> É <sup>f</sup> É <sup>f</sup> 0uÉv <sup>a</sup> É <sup>a</sup>	É <sup>0</sup> 0 <sup>+</sup> 0f0 <sup>+</sup> É <sup>a</sup> 1/4 <sup>0</sup> f
1	3 0	100.550
2	6 0	99.055
3	9 0	97.995
4	12 0	97.300
5	15 0	97.315
6	18 0	97.385
7	21 0	97.835
8	24 0	97.265
9	27 0	97.075
10	30 0	96.310

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| 3. JEEC'EEb.    | 10 |

**(ENGLISH)**

[TIME ALLOWED — 3 HOURS]

(MARKS — 100)

**ROAD ENGINEERING (PRACTICAL-I)***Instructions.—(1) All questions are compulsory.***Marks**

1. Plot a cross section for 30 m. intervals reduced levels are given for each interval. Find gradient for the same. Take datum 100.0 m. 80

Sr. No.	Distance in m.	Reduced levels
1	30	100.550
2	60	99.055
3	90	97.995
4	120	97.300
5	150	97.315
6	180	97.385
7	210	97.835
8	240	97.265
9	270	97.075
10	300	96.310

2. Oral. 10
3. Term Work. 10

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