

MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATIONS, MUMBAI

Examination, July 2014

CERTIFICATE COURSE IN ELECTRONIC ASSEMBLY AND T. V. MAINTENANCE

[Ἑβρ—3 ἰεε^οε]

(BEÚHÉ ~~NRÉ~~—100)

$$- \frac{1}{2} \left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} \right) \psi = - \frac{1}{2} \nabla^2 \psi = - \frac{1}{2} \left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} \right) \psi$$

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1. +K±fEeE É EboVEO]æE "E+]ÖEO]ÖSæEE öEE%aaE EEfa EinufaFa <+E]MxE°CÉ EaEEæEx]ö]P]ö
EoMaE(®ÆZ°)Öü Eo(E[E°]Öü EdC-æE, bEæEb÷]MZXE°)Öü Diac, IFT, IC) <iæEnö. 40
2. R-C phase shift oscillator Sfa oEiEö]ö iEæEöEüEü É input output EEæEE. 40

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{E0-BxÉ VÉÉ¶ÉxÉsÉá MEdÉvÉ ÉÇ n¶ÉÇ ÉhÉÉ® ofÉE0}ó ifÉÉ® E0É É +É+ÉáÉsÉÉÉ ofÉ/¶ÉÉxÉá ifá n¶ÉÉÉÉ.

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| 3. + ΕΠΕ. | 10 |
| 4. 70€ ΕΕΘ. | 10 |

(ENGLISH)

[TIME ALLOWED—3 HOURS]

(MARKS—100)

BASIC ELECTRONICS AND ASSEMBLY TECHNIQUE (PRACTICAL - I)

Marks

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| 1. | Test the given component using analogue and digital multimeter. (Assorted component like-resistor, capacitor, coil, diode, transistor, diac, IFT, IC, etc.). | 40 |
| 2. | To construct a circuit of R-C phase shift oscillator and measure its input and output voltages. | 40 |

OR

Find out a characteristics of PN junction diode. And plot a graph which shows characteristics of diode.

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| 3. Oral | 10 |
| 4. Term work. | 10 |