

M.Sc. (Physics) (NEP Pattern) Semester-II
02MSCPH4-3 - DSE-III Paper-IV - Practical Electronics

P. Pages : 1

Time : Three Hours



GUG/W/24/15420

Max. Marks : 80

Either:

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| 1. | a) | Explain the construction and working of PROM. | 8 |
| | b) | Explain the programming of a ROM. | 8 |

OR

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| | e) | Explain the working of static RAM. Differentiate between SRAM & DRAM. | 8 |
| | f) | Explain the Read & Write operation of RAM. | 8 |

Either:

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| 2. | a) | Describe the 8086 microprocessor architecture. | 8 |
| | b) | Explain the real & protected modes of 8086 microprocessor. | 8 |

OR

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| | e) | Explain the working of 8086 microprocessor in minimum mode. | 8 |
| | f) | Explain the addressing mode of 8086 microprocessor. | 8 |

Either:

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| 3. | a) | Explain the construction & working of CRT. | 8 |
| | b) | Explain the operation of TFT. | 8 |

OR

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| | e) | Discuss the types of LCD display. | 8 |
| | f) | Explain the operations of Touch screen. | 8 |

Either:

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| 4. | a) | Explain the working of amplitude modulation with suitable circuit diagram. | 8 |
| | b) | Draw the block diagram of PCM system and explain the function of each block. | 8 |

OR

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| | e) | Explain the block diagram of optical communication system. | 8 |
| | f) | Explain the construction & working of Klystron. | 8 |

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| 5. | Attempt all the followings. | | |
| | a) | Write a note on seven segment display. | 4 |
| | b) | Describe recent trends in microprocessor technology. | 4 |
| | c) | Write a note on LED display. | 4 |
| | d) | State the advantages of optical communications. | 4 |
