

B. N. Bandodkar College of Science, Thane
Junior College

S.Y.J.C. First Terminal Examination, October 2014

Sub.: Computer Science Paper: II (Computer Hardware)

- Q.1 A Select the correct alternatives and rewrite the sentences** 4
- a In the flag register of 8085 microprocessor ___ number of bits are kept unused.
i. 5 ii. 3 iii. 4 iv. 2
- b ___ is non-maskable interrupt
i. TRAP ii. RST7.5 iii. INTR iv. HLT
- c 80386 is a _____ processor
i. 8 bit ii. 16 bit iii. 32 bit iv. 4 bit
- d Most widely used and economical cable for network installation is ____
i. Fibre-Optic ii. UTP iii. STP iv. Co-axial
- B Answer any two of the following** 6
- a Draw a neat block diagram of typical microcomputer system. Explain the function of each block
- b What is protocol? Explain the concept of TCP/IP protocol.
- c Explain ring topology and token passing.
- Q.2 A Answer any two of the following** 6
- a Explain following blocks in 8085 microprocessor
i) Serial I/O control ii) Accumulator iii) Multiplexed Address/Data bus buffer.
- b Explain any three advantages of fiber optic cables.
- c Write features of 8085 microprocessor.
- B Answer any one of the following** 4
- a Explain different addressing modes in 8085.
- b Explain the main features of Pentium processor.
- Q.3 A Answer any two of the following** 6
- a Discuss any two access methods of networking.
- b Discuss instruction classification of 8085.
- c Explain the following 8085 instructions
i) LXI ii) LDAX iii) STA
- B Answer any one of the following** 4
- a Write short note on Evolution of microprocessor.
- b Explain the main features of Pentium processor.
- Q.4 A Answer any two of the following** 6
- a Explain router and modem with their uses.
- b Explain the following characteristics of transmission media
i) Bandwidth ii) Band Usage iii) Attenuation
- c Write short note on
i) Program Counter ii) Stack Pointer iii) Accumulator
- B Answer any one of the following** 4
- a Discuss the advantages of wireless network.
- b Write a short note on Ethernet.
- Q.5 A Answer any two of the following** 10
- a Write assembly language program that multiplies two 1-byte hex numbers stored in consecutive memory locations.
- b Write program that sorts the given data in descending Order.
- c Write assembly language program to perform subtraction of two 8 bit numbers.
- OR**
- B Answer any two of the following** 10
- a Write a assembly language program to perform addition of two 8 bit numbers.
- b Write a program that sorts the given data in ascending Order.
- c Write a program to transfer the block of data.