

B. N. Bandodkar College of Science, Thane

F. Y. B. Sc. Semester I Examination, March 2014

Course Code: USCS201

Duration: 2 Hrs.

Total Marks: 60

- Note:**
- i. All questions are compulsory.**
 - ii. Figures on right indicate maximum marks.**

Q. 1 a What is RAM? Differentiate between DRAM and SRAM. **8**

OR

a Explain the following: **8**

- i. RAID**
- ii. Optical Memory**

b Write note on Direct Memory Access (DMA). **7**

OR

b Discuss different types of ROM. **7**

Q. 2 a What is scheduling? Explain different types of scheduling. **8**

OR

a Write note on: **8**

- i. Memory management**
- ii. Batch Operating System**

b Explain time sharing operating system. **7**

OR

b Explain the characteristics of multiprocessors. **7**

Q. 3 a Explain 8085 architecture in brief. **8**

OR

a Write notes on: **8**

- i. Stack pointer**
- ii. Index register**

b Draw functional block diagram of 8086 and explain its blocks. **7**

OR

b Write 8086 assembly language program to find the factorial of entered number. **7**

Q. 4 a Write notes on: **8**

- i. Programmed I/O**
- ii. Bus interface Unit in 8086**

OR

a Discuss in detail multiport memory. **8**

b Write note on: **7**

- i. Cache memory**
- ii. Magnetic Tape**

OR

b Write assembly language program to find whether entered number is EVEN or ODD. **7**