

**B. N. Bandodkar College of Science, Thane.**  
**Junior College**  
**F.Y.J.C. 1<sup>st</sup> Term Examination, October 2014**  
**Subject – Computer Science; Paper II (Computer Hardware)**

Time: 3 Hours

Max. Marks: 50

Note: 1) All questions are compulsory.

- Q. 1 A**      **Select the correct alternatives and rewrite the following**      **4**
- a. The main system board in a PC is known as \_\_\_\_\_  
i) CPU      ii) Motherboard      iii) Controller board      iv) All of the above
- b. An imaginary memory is known as \_\_\_\_\_ memory  
i) Expanded      ii) Virtual      iii) Conventional      iv) All of the above
- c. \_\_\_\_\_ bus is unidirectional  
i) Data      ii) Address      iii) None of these      iv) All of the above
- d. DMA allows \_\_\_\_\_ data transfer  
i) Fastest      ii) Slowest      iii) None of these      iv) All of the above
- B**      **Answer any two of the following**      **6**
- a. Write the difference between Computer Software and Hardware.  
b. Write a short note on RAM.  
c. Explain the concept of interrupt.
- Q. 2 A**      **Answer any two of the following**      **6**
- a. Write a short note on VESA Local Bus.  
b. Write a short note on Reverse bias.  
c. List all the specification of Pentium III.
- B**      **Answer the following.(Any One)**      **4**
- a. What do you mean by conventional memory?  
b. Write a short note on ROM.
- Q. 3 A**      **Answer any two of the following**      **6**
- a. Write the difference between Physical and Logical memory.  
b. Explain the working of PNP transistor with diagram.  
c. List and Explain all the properties of CPU.
- B**      **Answer the following.(Any One)**      **4**
- a. Draw the following diagrams:-  
    a) PC with mini Cabinet      b) PC with Horizontal Cabinet  
b. Write short note on PROM and EPROM.
- Q. 4 A**      **Answer any two of the following**      **6**
- a. Enlist the components and slots, which are normally assembled on a motherboard.  
b. Write a short note on semiconductors.  
c. List all the specifications of PC 486 (OLD)
- B**      **Answer the following.(Any One)**      **4**
- a. Explain the difference between volatile and non-volatile memories.  
b. Write a short note on Data and Address buses
- Q. 5**      **Answer any two of the following**      **10**
- a. Explain the working of transformers with diagram.  
b. Write a short note on DMA.  
c. Write a short note on virtual memory.
- OR**
- Q. 5**      **Answer any two of the following**      **10**
- a. What do you mean by Controller? Give suitable example.  
b. State different types of semiconductor memories. Explain any 1 in detail.  
c. Write a short note on Expanded and Extended memory