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- 4.a. i) Specify the peripheral devices required for any application system. (3)  
ii) Explain various interfacing devices in constructing an application. (5)  
iii) Illustrate the working of 8085 microprocessor based temperature control system with a neat block diagram. (12)

(OR)

- 4.b. i) Write the sequence of operations performed by the microprocessor based temperature control system. (3)  
ii) Explain the working of stepper motor. (5)  
iii) Illustrate how stepper motor switching sequence is controlled using 8085 microprocessor. (12)

- 5.a. i) Which addressing method is used by the stack? (3)  
ii) Explain how external memory can be interfaced in 8051. (5)  
iii) Explain the block diagram of 8051 with neat sketch. (12)

(OR)

- b.i) Which bits in the PSW select the register banks? How is memory bank 2 selected? (3)  
ii) Give details about the organization of Data memory in 8051 microcontroller. (5)  
iii) Describe the role of TCON and TMOD registers in various modes of timer operation in 8051. (12)

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