Time: 3 hours   **Max. Marks: 80**

N.B. (1) Question one is Compulsory.
    (2) Attempt any 3 questions out of the remaining.
    (3) Assume suitable data if required.

Q. 1 a) Different between Thread and processor.   **05**

  b) Enlist the reason of popularity of Unix OS.   **05**

  c) Explain the classification of RTOS   **05**

  d) Different between hard RTOS and Soft RTOS.   **05**

Q. 2 a) Explain the NUMA structure of MOS.   **10**

  b) Explain the scheduling in RTOS.   **10**

Q. 3 a) Explain the design issues in multiprocessor architecture.   **10**

  b) Explore your idea or discuss the various issues of cloud OS?   **10**

Q. 4 a) Explain the Architecture iOS of Mobile OS?   **10**

  b) Explore the your idea hardware and software concept of DOS.   **10**

Q. 5 a) Explain the UMA structure using multistage interconnection network.   **10**

  b) Explain the design issues of transparency of Dos.   **10**

Q. 6 a) Explore the your idea issues in Android OS architecture?   **10**

  b) What is buffer cache? Describe the structure of the buffer header   **10**

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