

OS

- 1) B) 7
- 2) B) FCFS
- 3) D) Interrupt from CPU temperature sensor
- 4) C) Fewer page fault occurs
- 5) C) $u + 10 = x$ and $v = y$

DBMS

- 1) (B) 3
- 2) (A) i and ii
- 3) (A) the schema is bcnf
- 4) (B) We must undo log record 6 to set B to 10000 and then redo log records 2 and 3.
- 5) (C) Select R.* from R, (select distinct a from S) as S1 where R.a=S1.a

DS

- 1) a) d e b f g c a
- 2) d) Merge Sort
- 3) b) logn
- 4) a) while loop must check whether the stack is empty or not at the end
- 5) D) 10, 8, 7, 3, 2, 1, 5

ALGO

- 1) (D) $O(n \log n)$
- 2) (D) $N(\log N \text{ base } 3/2)$
- 3) (D) $O(2^n)$
- 4) (B) P, Q, R, U, S, T
- 5) (D) 10

others

- 1) (B) 1-d, 2-a, 3-b, 4-c
- 2) (B) 5
- 3) (C) 27
- 4) (C) Block transfer and vectored inputs
- 5) (A) 1.155