DS DAYWISE QUIZ MCQS:

Q. Data structures is a _____.
A. software
B. programming language
C. programming concept
D. all of the above
E. none of the above
Answer: C

Q. During program execution data gets processed which is inside ____.
A. the disk
B. the main memory
C. both options 1 and 2
D. none of the above
Answer: B

Q. If an algorithm takes maximum amount of time to run to completion then it is referred as:
A. best case time complexity
B. worst case time complexity
C. average case time complexity
D. all of the above
E. none of the above
Answer: B

Q. Which of the following notation is used to represent asymptotic tight bound?
A. Big Oh (O)
B. Big Omega (Ω)
C. Big Theta (θ)
D. None of the above
Answer: C

Q. In a linear search algorithm, worst case occurs: (Single Choice)*
A. If the key element is exist at first position in a collection/list.
B. If the key element is exist at last position in a collection/list.
C. If the key element does not exist in the list.
D. If either the key element exist at last position or does not exist in the list.
Answer: D

Q. What is an asymptotic average case time complexity of a linear search algorithm?
A. O(n)
B. O(n/2)
C. θ(n)
D. θ(n/2)
E. both options 3 and 4
Answer: C

Q. There is a need of data structure in programming to achieve:
A. Encapsulation
B. Efficiency
C. Polymorphism
D. None of the above
Answer: B