

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur

Academic Session 2023-2024

Bachelor of Science (B. Sc.) (Semester-III)

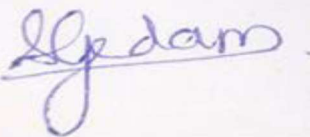
COMPUTER SCIENCE Paper-I UNIT TEST on Unit I and II

Time: 45 min.]

[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. What is linked list ? Explain its memory representation. (5)
Or
2. Write an algorithm to insert a node at the beginning of linked list. (5)
3. What is a doubly linked list ? Write an algorithm to delete the last node from a doubly linked list. (5)
Or
4. Write an algorithm to delete the front node of a single linked list. (5)
5. Explain the stack and representation of a stack. (5)
Or
6. Write the algorithms for push and pop operations on stack. (5)
7. Convert the following expression to prefix and postfix : (5)
Or
8. Write a recursive algorithm for Tower of Hanoi problem. (5)



Signature of Teacher



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COMPUTER SCIENCE Paper-I

UNIT TEST MARKS OUT OF 20

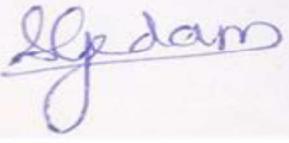
Name of Teacher: Dr. S. R. Gedam

Date:27/09/2023

S.N.	Name of Students	Group	Paper I Test I
1	Akansha A. Lokhande	SCSM	20
2	Akshita P. Mohdikar	SCSM	12
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Bachelor of Science (B. Sc.) (Semester-III)

COMPUTER SCIENCE Paper-I – Data Structures

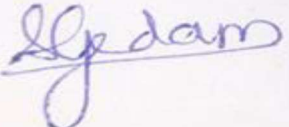
UNIT TEST on Unit III and IV

Time: 45 min.]

[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. Write short notes on : 5
(i) Deque
(ii) Priority queue.
Or
2. Write an algorithm for inserting a node in a circular queue. 5
3. Explain with an example the selection sort technique. 5
Or
4. What is hashing ? Explain various hashing functions. 5
5. Write an algorithm for pre order traversal of a binary tree. 5
Or
6. Explain the linked representation of a graph. 5
7. Explain the steps for depth first search in a graph. 5
Or
8. Explain Heap Sort method with suitable example. 5



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COMPUTER SCIENCE Paper-I

UNIT TEST MARKS OUT OF 20

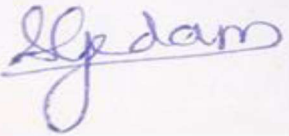
Name of Teacher:Dr. S. R. Gedam

Date:25/10/2023

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COMPUTER SCIENCE Paper-II – Operating System

UNIT TEST on Unit I and II

Time: 45 min.]

[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. What is a process ? Explain process states in detail. 5
Or
2. Explain “shortest job first” CPU scheduling algorithm with suitable diagram. 5

3. Write notes on the following : 5
(i) Long term scheduler
(ii) Short term scheduler
(iii) Medium term scheduler.
Or
4. Draw life cycle of thread and explain. 5

5. Explain deadlock prevention methods. 5
Or

- 6 Write notes on the following :
(i) Deterministic Modeling
(ii) Simulators.

7. Explain safety algorithm for deadlock avoidance. 5
Or
8. Explain resource allocation graph in detail. 5



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COMPUTER SCIENCE Paper-II – Operating System

UNIT TEST on Unit III and IV

Time: 45 min.]

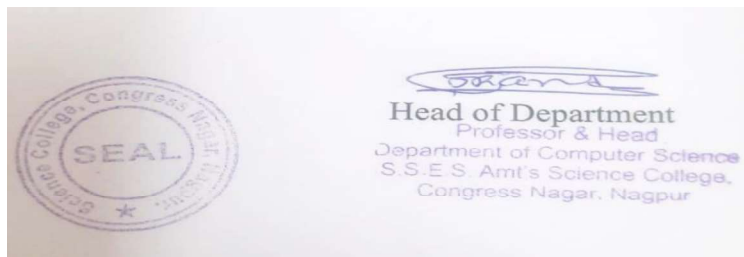
[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. What is input/output buffering ? List types of buffering. Explain any two. 5
Or
2. Write short notes on :
(i) Digital Signature
(ii) Biometric Authentication. 5
3. How many levels does a RAID support ? Explain RAID LEVEL 0 (Striping) and RAID LEVEL 1 (Mirroring). 5
Or
4. Explain cryptography with suitable example.
5. Explain fixed equal multiple partition memory management scheme with two advantages and disadvantages. 5
Or
6. Write notes on the following in context of memory management:
(i) Protection
(ii) Shaving. 5
7. Explain segmentation with paging. 5
Or
8. What is swapping? Explain swap-in and swap-out process with diagram.



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