

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

Academic Session 2019-2020

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

Head of Department

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Academic Session 2019-2020

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

S.N.	Name of Students (ECSM)	Marks out of 20 Test I	Marks out of 20 Test II	Signature
1	Ashfiya M. Khan	13	16	
2	Ashu R. Gawali	18	8	
3	Devyani S. Pranjale	6	20	
4	Dimple P. Ganatra	A	9	
5	Mayuri R. Jatadhar	19	5	
6	Mona M. Mohadikar	16	17	
7	Nupur Soni	6	12	
8	Pallavi P. Baghele	9	A	
9	Ragini R. Waghmare	20	6	
10	Richa N. Kirad	A	15	
11	Sharwari R. Borikar	14	14	
12	Shital G. Thakre	13	18	
13	Shubhangi V. Mandekar	12	18	
14	Smita R. Jawade	5	12	
15	Tisha D. Jejani	A	18	
16	Aditya S. Jogwar	18	9	
17	Jatin D. Thakre	6	8	
18	Mayur Bobde	16	11	
19	Rohit Sharma	18	8	
20	Rushikesh D. Sarode	A	10	
21	Shubham Nimje	18	5	
22	Vijay R. Masram	13	8	
23	Yogesh H. Bhat	13	19	
24	Yashraj Y. Bhambarkr	10	6	
S.N.	Name of Students (PCSM)	Group	P1	
1	Aarti P. Tungar	10	9	
2	Aishwarya V. Khandait	6	13	
3	Anjana G. Singh	5	20	

4	Anushree P. Barahate	A	19	
5	Avanti P. Anay	20	13	
6	Ayushi R. Chotvani	9	15	
7	Bhagyashree A. Borkar	6	11	
8	Bhaveshree Punnase	A	7	
9	Bhavika P. Korde	6	11	
10	Dhanshree A. Awasthi	16	10	
11	Himshikha R. Jain	20	11	
12	Kamudi K. Wadsamudrakar	18	6	
13	Mrunali T. Khapekar	12	8	
14	Pallavi S. Ghodmare	11	7	
15	Payal J. Bahoriya	10	8	
16	Shreela W. Wagde	15	17	
17	Pooja S. Raut	12	14	
18	Pournima K. Mundley	16	9	
19	Pratiksha P. Temburkar	6	6	
20	Pratiksha V. Lapse	17	7	
21	Rani S. Rangari	8	5	
22	Ritika Sahu	A	19	
23	Rupali Bodkhe	13	9	
24	Rutika S. Dumane	7	13	
25	Sakshi P. Ambolikor	9	5	
26	Sakshi P. Kadwe	20	20	
27	Sakshi R. Ganjare	15	12	
28	Sakshi V. Tawale	5	6	
29	Sandhya K. Dwivedi	5	10	
30	Sayali J. Tamane	17	14	
31	Shivani Nagpure	A	5	
32	Shreya M. Gahankari	15	16	
33	Shreya V. Borikar	16	12	
34	Sneha A. Yadav	14	11	
35	Snehal A. Ghugal	19	6	
36	Upasna Ratani	20	A	
37	Varsha M. Kamatkar	19	17	
38	Yukta D. Hajare	18	13	
39	Aadesh A. Ghanote	13	15	
40	Akshay S. Kokode	12	20	
41	Aniket A. Dhakate	A	17	
42	Ankit R. Kathoke	11	12	

43	Ashvin Lad	20	7	
44	Bikash R. Panda	14	13	
45	Digamber Kolhe	7	9	
46	Nihal R. Gawale	A	6	
47	Prajwal S. Madne	6	18	
48	Ramesh R. Sarkar	19	9	
49	Rushikesh B. Thakre	16	15	
50	Sahil M. Madhavi	15	20	
51	Sarvesh S. Hekad	20	9	
52	Sheeshir Upadhye	11	17	
53	Shubham S. Sinekar	19	14	
54	Vicky S. Sahu	6	19	
55	Vinay L. Saddeo	9	18	
56	Yash H. Tembhare	A	5	
S.N.	Name of Students (SCSM)	Group	P1	
1	Nikita J. Nagpurkar	17	18	
2	Pranjali Miralwar	8	9	
3	Harshita Kapse	15	6	
4	Ankush D. Yede	9	13	
5	Madhura V. Dubey	5	8	
6	Tanuja D. Lilhare	6	8	
7	Mansi B. Dokrimare	11	11	
8	Sneha S. Ikhar	A	13	
9	Unnati J. Ukinkar	13	16	
10	Hema R. Gupta	17	13	
11	Radhika A. Tiwari	7	17	
12	Mayank Ramtekkar	9	9	
13	Tasneem K. Azmi	13	20	
14	Dipti V. Vidya	7	A	
15	Himanshu B. Sharanagat	18	8	
16	Premchand D. Rakhade	15	18	
17	Khushi R. Sharma	12	7	
18	Ruchika Goliat	A	18	
19	Saujanya Yelmule	19	20	
20	Bhushan G. Meshram	16	13	
21	Subodh N. Chaudhari	20	7	
22	Ameya R. Mhaisurkar	9	11	
23	Shrinivas A. Deshpande	5	13	

24	Omkar U. Londhe	15	8	
25	Yogesh R. Waghode	18	9	
26	Ketki R. Shende	15	10	
27	Nikesh V. Chavhan	19	13	
28	Aditya T. Shirpure	A	17	
29	Neetu M. Dharmari	5	17	
30	Yashashree D. Masurkar	8	A	
31	Sanket R. Tople	8	6	
32	Rutvik G. Harne	14	20	

Signature of Teacher

Head of Department

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

Academic Session 2019-2020

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

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 (Stripping) 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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23	Yogesh H. Bhat	10	5	
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2	Aishwarya V. Khandait	18	13	
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Signature of Teacher

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