



**SBERCT's**

**BHAGWANT INSTITUTE OF TECHNOLOGY, BARSHI**

Approved by AICTE, DTE (Government of Maharashtra), Affiliated to DBATU University

**Computer Department**

Academic Year : 2023-24

Class : SY

**Prerequisite Question Paper**

- 
- 1 - What is a data structure?  
a) A programming language  
b) A collection of algorithms  
c) A way to store and organize data  
d) A type of computer hardware
- 2 - Which data structure is used for implementing recursion?  
a) Stack  
b) Queue  
c) List  
d) Array
- 3 - What is the value of the postfix expression 6 3 2 4 + - \*?  
a) 74  
b) -18  
c) 22  
d) 40
- 4 - The data structure required for Breadth First Traversal on a graph is?  
a) Array  
b) Stack  
c) Tree  
d) Queue
- 5 - The prefix form of  $A-B/(C * D ^ E)$  is?  
a)  $-A/B * C ^ DE$   
b)  $-A/BC * ^ DE$   
c)  $-ABCD * ^ DE$   
d)  $- / ^ ACBDE$
- 6 - Which of the following is the most widely used external memory data structure?  
a) B-tree  
b) Red-black tree  
c) AVL tree  
d) Both AVL tree and Red-black tree
- 7 - What is the advantage of a hash table as a data structure?  
a) easy to implement  
b) faster access of data  
c) exhibit good locality of reference  
d) very efficient for less number of entries
- 8 - Which type of data structure is a ternary heap?  
a) Hash  
b) Array  
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- 9 - The number of elements in the adjacency matrix of a graph having 7 vertices is \_  
a) 7  
b) 14  
c) 36  
d) 49



- 10- Which of the following is the most widely used external memory data structure?  
a) AVL tree      b) B-tree      c) Red-black tree      d) Both a and c
- 11 -What is the time complexity of uniform binary search?  
a)  $O(n \log n)$       b)  $O(\log n)$       c)  $O(n)$       d)  $O(n^2)$
- 12 - Which of the following algorithms are used to find the shortest path from a source node to all other nodes in a weighted graph?  
a) BFS      b) Dijkstra's Algorithm      c) Prim's Algorithm      d) Kruskal Algorithm
- 13 -What is the maximum number of swap that can be performed in the selection sort algorithm?  
a)  $n-1$       b)  $n$       c) 1      d)  $n-2$
- 14 - What is the time complexity of the binary search algorithm?  
a)  $O(n)$       b)  $O(1)$       c)  $O(\log_2 n)$       d)  $O(n^2)$
- 15 - Merge sort can be implemented using  $O(1)$  auxiliary space.  
a) true      b) false
- 16 - Which of the following method is used for sorting in merge sort?  
a) merging      b) partitioning  
c) selection      d) exchanging
- 17 - Which of the following is not an in place sorting algorithm by default?  
a) merge sort      b) quick sort  
c) heap sort      d) insertion sort
- 18 - Which type of Programming does Python support?  
a) object-oriented programming      b) structured programming  
c) functional programming      d) all of the mentioned
- 19 - Which keyword is used for function in Python language?  
a) Function      b) def      c) Fun      d) Define
- 20 - Suppose B is a subclass of A, to invoke the `__init__` method in A from B, what is the line of code you should write?  
a) `A.__init__(self)`      b) `B.__init__(self)`  
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Principal  
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name :- Sadik korbu .

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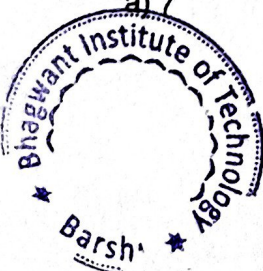
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Name: - *Shruti P*

*20/20*



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name:- pranali patil.

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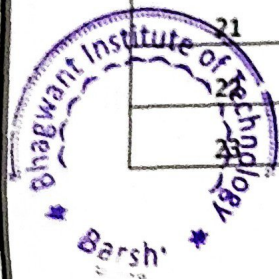
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**Pre-requisite Result Sheet**

**Academic Year: - 2023-24**

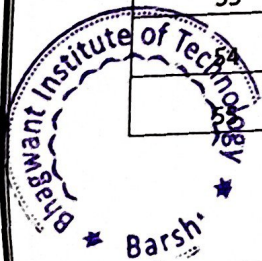
**Class: - SY (CSE)**

Sr No.	NAME OF STUDENTS	Marks
1	ONKAR UMAKANT IJARE	20
2	SAMPADA SHIVAJI SHINDE	20
3	VAISHNAVI BALASAHEB MATE	20
4	SANIYA SAMEER SHAIKH	20
5	SIDDHI PRAKASH MADANE	20
6	SANIKA RAVIKIRAN JADHAV	20
7	SANJ GOUS TAMBOLI	20
8	PALAK RAHUL KUNKULOL	20
9	SHAHBAJ SALIM SHAIKH	18
10	ROHAN GANESH KOLEKAR	20
11	PIYUSH ARUN GAIKWAD	27
12	AMAN AYYUB MOMIN	20
13	JAGJEET ACHYUTRAO NIMBALKAR	20
14	KRANTI SURESH JADHAVAR	18
15	AMRUTA SANJAY JAGTAP	20
16	AYESHA SAMEER TAMBOLI	18
17	PRATIKSHA SURAJ ANKUSHRAO	20
18	AKASH DIGAMBAR KSHIRSAGAR	18
19	BHAGWANT DHANAJI HAJARE	20
20	OM YUVRAJ BOTRE	20
21	ABHIJEET LAXMAN BHORE	18
	SHITAL SUBHASH NARWAD	20
	DEOKAR SWEETI VISHNU	06



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24	AMRUTA SUNIL MASTUD	15
25	SNEHAL RAJKUMAR SANAP	18
26	VINAYAK JAGADISH TELKAR	05
27	ROHIT DATTATRAY CHAVARE	<del>20</del>
28	MAHESH RAJESH GORE	20
29	YUVRAJ GANESH UBALE	06
30	HARSHAVARDHAN ARJUN SHELKE	07
31	ANUJA ARVIND JADHAV	20
32	SUPRIYA MANISH DHEKANE	20
33	ONKAR VISHWAS WAYKULE	18
34	KARAN PRALHAD PHAD	06
35	JAY DHARMENDRA PATOLE	17
36	ANISH ANIL LOKHANDE	18
37	ADARSH SANJAY SUGANDHE	19
38	ATHARV KHANDERAU MADANE	18
39	KULDIPAK SADUBUVA WAGHMODE	05
40	SURAJ TANAJI CHOPADE	15
41	ROHIT MANOHAR KAKADE	16
42	ROHIT SHAILESH BIRAJDAR	17
43	SADASHIV MADHUKAR SOMASE	15
44	PRATHAMESH DAYANAND PATHAK	00
45	ANUP ARVIND BAGADE	00
46	ASHUTOSH SANTOSH MASKE	17
47	RITESH RAJENDRA PATWARI	16
48	YASHVANT BHARAT PATIL	15
49	SHUBHAM DADA SHINDE	07
50	KARAN PRATAP KAKADE	17
51	SUMIT RADHAKISHAN SALAVE	09
52	SUJIT CHANDRASEN GAYKE	19
53	SAURABH BALIRAM CHAVAN	18
	SATENDRA BABAN DHEPE	07
	DNYANESHWAR MARUTI GAVADE	06



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56	SHRUTI SANDEEP POL	20
57	SAMPADA RAOSAHEB WALHEKAR	19
58	ATUL KAILAS GARJE	02
59	NOMAN MAHAMUDNAWAJ SAYYAD	05
60	VAISHNAVI SANTOSH CHAUDHARI	16
61	SARITA SHANKAR SATPUTE	15
62	SAKSHI MAHADEV SHELAK	17
63	ROHIT SATISH MALI	18
64	PRANJALI SAYAJI PATIL	20
65	KANISHQ NITIN MOHITE	04
66	AZAAN YUSUF SHAIKH	09
67	ROHAN SAHADEV JAGTAP	18
68	YASH KANTILAL PAWAR	08
69	KORBU SADIK DILKHUSH	20
70	TAMBOLI MATIN ARIF	05
71	SHINDE MONIKA AMBADAS	20
72	WAKADE VINITA VITTHAL	20
73	GORE VAIBHAVI VIJAYKUMAR	20
74	PATHAN FAIJAN YUSUFKHAN	03
75	BHADAKAWAD DEEPA DAVID	00
76	DHAME ANJALI MAHADEV	15
77	KUTWAL RUTUJA SANTOSH	20
78	MANGADE PRAPTI DHANAJI	20
79	SAWANT SAKHI DHANANJAY	20
80	HONRAO SHREYASH RAJKUMAR	01
81	BARATE GANESH	16

  
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**List of Bright and Weak Student**

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6.	ABHIJEET LAXMAN BHORE	M
7.	VISHNU DEOKAR SWEETI	M
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11.	JAY DHARMENDRA PATOLE	M
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14.	SADASHIV MADHUKAR SOMASE	M
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16.	ASHUTOSH SANTOSH MASKE	M
17.	RITESH RAJENDRA PATWARI	M
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23.	WAKADE VINITA VITTHAL	M
24.	DHAME ANJALI MAHADEV	M
25.	BARATE GANESH ANNASAHEB	M
26.	ONKAR UMAKANT IJARE	S
27.	SAMPADA SHIVAJI SHINDE	S
28.	SANIYA SAMEER SHAIKH	S
29.	SIDDHI PRAKASH MADANE	S
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33.	JAGJEET ACHYUTRAO NIMBALKAR	S
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77.	KORBU SADIK DILKHUSH	W
78.	PATHAN FAIJAN YUSUFKHAN	W
79.	BHADAKAWAD DEEPA DAVID	W
80.	HONRAO SHREYASH RAJKUMAR	W

  
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