



PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road, Surampalem. –533 437, Near Peddapuram, Kakinada District., A.P.

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada & Accredited by NBA)

(Recognized by UGC Under Sections 2(f) and 12 (B) of UGC act, 1956)

Ph: 08852 – 252233, 34. Website: www.pragati.ac.in

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 20/01/2024

CIRCULAR

All the students and staff are hereby informed that the event of Online Quiz on “**Sorting Techniques and Network Protocols**” organized by pragsoft association with Carrier Guidance Cell will be conducted on **23-01-2024**.

For registration and other details the student may contact the Faculty Co-Ordinator Mr.S.K.Sankar (Mobile: 9063270672) and Student Moderators Ms.B Sudha| (22A35A0508) and Ms.P Jaya Lakshmi (22A35A0510).

HOD-CSE



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

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Accredited by NBA, NAAC with "A" grade, Recognized by UGC under sections 2(f) & 12(b)
ADB Road, Surampalem, Near Peddapuram, E.G. Dist., A.P.

DEPARTMENT OF CSE

Student Club

PRAGSOFT

in association with Career Guidance Cell
organizes

Online Quiz on

Sorting techniques, Network protocols

23/01/2024 11:00 Am - 02:00 Pm

Quiz Link

<https://forms.gle/xX3av2hgGU4oz2rSA>

Moderators

Ms . B . Sudha (22A35A0508)

Ms . P . Jayalakshmi (22A35A0510)

Faculty Coordinator

S. K. Sankar

Assistant professor

Department of CSE

THE FOLLOWING QUESTIONS ARE PRESENTED IN THE ONLINE QUIZ

QUIZ QUESTIONS

1. What is the term used when the main server sends mail to another mail server?
A) SMTP
2. Identify among the following the network device used to connect two dis-similar types of networks.
A) Gateway
3. Identify the device used to boost up a weak signal.
A) Repeater
4. What of the following device is used in the network layer?
A) Router
5. Identify if the following statement is True or False: Network Interface Card(NIC) is an I/O device.
A) True
6. Which of the following is not a stable sorting algorithm in its typical implementation.
A) Quick Sort
7. What is the best time complexity of bubble sort?
A) N
8. Which of the following sorting algorithms has the lowest worst-case complexity?
A) Merge Sort
9. Which sorting algorithms is most efficient to sort string consisting of ASCII characters?
A) Counting Sort
10. Which of the following is true about merge sort?
A) All of the above.
11. Randomized quicksort is an extension of quicksort where the pivot is chosen randomly. What is the worst case complexity of sorting n numbers using randomized quicksort?
A) $O(n^2)$
12. The worst case running times of Insertion sort, Merge sort and Quick sort, respectively, are:
A) $\Theta(n^2)$, $\Theta(n \log n)$ and $\Theta(n^2)$
13. Assume that we use Bubble Sort to sort n distinct elements in ascending order. When does the best case of Bubble Sort occur?
A) When elements are sorted in ascending order
14. Which is the correct order of the following algorithms with respect to their time Complexity in the best case ?
A) insertion sort < Quick sort < Merge sort < selection sort
15. A sorting technique is called stable if:
A) It maintains the relative order of occurrence of non-distinct elements
16. Which one of the following in place sorting algorithms needs the minimum number of swaps?
A) Selection sort
17. Which of the following algorithm design technique is used in merge sort?
A) Divide and Conquer
18. Selection sort algorithm design technique is an example of
A) Greedy method
19. The average case and worst case complexities for Merge sort algorithm are
A) $O(n \log^2 n)$, $O(n \log^2 n)$
20. What is an advantage of a linear search?
A) It is a simple algorithm

THE FOLLOWING STUDENTS ARE PARTICIPATED IN THE ONLINE QUIZ EVENT

S.NO	NAME	ROLL NO	BRANCH	SECTION	EMAIL ID	SCORE
1	Muttinti Veera Venkat	22A35A0411	ECE	B	muttintiveera1234@gmail.com	18 / 40
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46	Varsha	21a31a0576	CSE	B	varshitachinu@gmail.com	6 / 40

SUMMARY INFORMATION OF THE STUDENTS WHO PARTICIPATED FROM DIFFERENT BRANCHES

S.NO	BRANCH	COUNT
1	CSE	29
2	CSE-AI ML	13
3	ECE	4
TOTAL		46

Date: 23-01-2024

A Report On Technical Quiz Contest By PragSoft

A online quiz competition on C (Sorting Techniques) & CN (Network Protocols) is organized by Ms. B. Sudha (22A35A0508) and Ms. P. Jayalakshmi (22A35A0510) as resource persons on 23rd January 2024. A total of 46 No's students from 2nd and 3rd year B.Tech have attended the contest. The contest began at 11:00AM of 23rd January 2024 and ended at 02:00 PM of 23rd January 2024.

Dignitaries of the program were Dr.K Satyanarayana sir, Principal, Pragati Engineering College and Dr. D.V.Manjula, HOD, Department of Computer Science and Engineering, PEC, enlightened the audience by participating in quiz and its importance.

Principal Dr.K Satyanarayana Sir, PEC, congratulated all the participants and theorganizing team, Department of CSE Good luck.

Contest link:

<https://forms.gle/xX3av2hgGU4oz2rSA>

FACULTY CO-ORDINATOR

S K Sankar

Asst. Professor

CSE

HOD

Dr. D.V.Manjula

Professor & HOD

CSE

The following are the students who Secured merit certificate in the online quiz event

Certificate of Achievement

This certificate is proudly awarded to **D Keerthi Sri** of Roll Number **21A31A4274** for their extraordinary performance in the online quiz conducted on the topic "**SORTING TECHNIQUES AND NETWORK PROTOCOLS** " on 23rd January, 2024



SIGNATURE OF PRINCIPAL

Certificate of Achievement

This certificate is proudly awarded to MARRI DURGA NAGA CHAITANYA LAHARI of Roll Number 21A31A4288 for their extraordinary performance in the online quiz conducted on the topic "**SORTING TECHNIQUES AND NETWORK PROTOCOLS**" on 23rd January, 2024



SIGNATURE OF PRINCIPAL