

Module 1

Q 1 a. What is data structure? What are various types of data structure? Explain. (5 marks)

Ans:

A structure represents name, type, size and format. A data structure is a represents to organize and store data in terms of name, type, size and & format in computers memory. Data may contain a single element or sometimes it may be a set of elements. Whether it is a single element or multiple elements but it must be organized in a particular way in the computer memory system.

General data structure types include the array, lists, vectors, the file, the record, the table, the tree, graph and so on. Any data structure is designed to organize data to suit a specific purpose so that it can be accessed and operated with appropriate ways.

Types of data structure:



Data Structure operations:

- **Addition/insertion:** To add data at beginning or end or to insert data between two data
- **Sorting:** To sort data either in ascending or descending order to make the search operation faster
- **Search:** To search data within given collection by different ways
- **Modification:** To modify existing data with new data
- **Deletion:** To delete existing data

Q1b. What is a structure? How it is different from array? Explain different types of structure declarations with examples & give differences between Union & Structure. (10 Marks)

Ans:

Structure is a data structure whose individual elements can differ in type. It may contain integer elements, character elements, pointers, arrays and even other structures can also be included as elements within a structure.

Different from Array: Array is collection of similar data type but structure is composed of different data types. It represents a record with different fields. Structure of a student may have roll number of integer, name as string and marks as float.

struct is keyword to define a structure.

```
struct tag { type member1;  
            type member2;  
            type member3; ..... type member n;};
```

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Padhraic Smyth



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The Top Books of the Year Vtu Question Paper Solution Unit Sjbit The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Vtu Question Paper Solution Unit Sjbit : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Vtu Question Paper Solution Unit Sjbit : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Vtu Question Paper Solution Unit Sjbit : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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