

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;};
```

Vtu Question Paper For Mech

Lei Huang



Vtu Question Paper For Mech:

Metal Casting and Welding Anup Goel, 2020-12-01 Metal casting is the process of producing metal or alloy component parts. In casting, the metal is heated sufficiently to make it into liquid and then poured into moulds of the desired shape. Casting is most often used for making complex shapes so that would be difficult or uneconomical to make by other methods. Welding is a fabrication process that joins materials, usually metals, by using high heat to melt the parts together and allowing them to cool, causing fusion. Many different energy sources can be used for welding, including gas flame, electric arc, a laser, and electron beam, friction, and ultrasonic. Our hope is that this book, through its careful explanations and concepts and its use of sketches and figures, bridges the gap between knowledge and proper application of that knowledge. ICT for Competitive Strategies Durgesh Kumar Mishra, Nilanjan Dey, Bharat Singh Deora, Amit Joshi, 2020-05-05 Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state of the art as well as emerging topics pertaining to information and communication technologies, ICTs, and effective strategies for its implementation for engineering and intelligent applications. Teachers' Journal, 1960 *Instrument Practice*, 1953 **Soviet Journal of Optical Technology**, 1969 National Union Catalog, 1980 Includes entries for maps and atlases *Editor & Publisher*, 1945 *The National union catalog, 1968-1972*, 1973 The National Union Catalogs, 1963-, 1964 **Who's who in America**, 1956 Previous Years' Solved Question Papers GATE Mechanical Engineering 2019 Pearson, Previous Years Solved Question Papers GATE Mechanical Engineering 2019 *AE (Mechanical) Exam Papers PDF eBook-Assistant Engineer (Mechanical) Exam PDF eBook* Chandresh Agrawal, nandini books, 2025-01-31 SGN The State Level AE Mechanical Assistant Engineer Mechanical Exam PDF eBook Covers Previous Years Papers Of Various States With Answers Examination Papers University of Manchester, 1977*

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