

Q1. What is a compiler?

A compiler is a special program that translates code written in a high-level programming language (like C, C++ or Java) into machine code that a computer's processor can understand and execute.

Q2. What is an interpreter?

An Interpreter is a program that directly executes instructions written in a high-level programming language line by line, without converting the entire code into machine code at once like a compiler does.

Q3. Who is the inventor of the C programming?

The C programming language was invented by Dennis Ritchie in the early 1970's at Bell Labs.

Q4. What is a keyword in C programming?

In C programming, a key word is a reserved word that has a special meaning to the compiler.

Example: `int` - used to declare an integer variable.

Q5. What is a for loop?

A for loop in C is a control flow statement used to repeat a block of code a specific number of times. It's especially useful in how many times you want to run the loop.

Q6. What are the differences between While and do While loop?

1. While loop:

- condition is checked before the loop body runs.
- The loop may not run at all if the condition is false from the start.

2. do While loop:

- condition is checked after the loop body runs.
- The loop runs at least once, even if the condition is false.

Q7. What is an array?

An array in C is a collection of elements of the same data type. It is used to store multiple values using a single variable name, with each value accessible by an index.

Q8. What is a pointer?

A pointer in C is a variable that stores the memory address of another variable.

Q9. What is a structure?

A structure in C is a user-defined data type that allows you to group different types of variables under one name.

Q10. What are the differences between array and pointer?

Array:-

- A collection of fixed-size elements stored in contiguous memory.
- `int arr[5];` // array of 5 integers.

pointer:-

- A variable that stores the memory address of another variable.
- `int *ptr;` // pointer to an integer.

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, BHAGALPUR

Type of Examination :	Mid-sem	End-sem	Other (Please mention) :	Semester : 6 th	DATE : 26/02/25
[Put a tick(✓)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TIME: From 03:00 PM	
				TH 05:00 PM	

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COURSE TITLE : Computer Graphics COURSE CODE : CS304

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1. Please carefully read the examination related instructions in this section. Also you must follow the instructions if given in the question paper or mentioned by the invigilator at the time of examination.
2. Please write on both sides of the paper
3. Index all the pages(excluding this cover page and the other side of the cover page) with page number 1,2,3 etc and continue this order across supplementary sheets as well.
4. Signature put by the student should be similar to his/her Identity card/admit card.
5. Students should occupy their seats in the examination hall atleast 10mins before the start of the examination .Make sure that you are in the correct examination hall and at the correct seat. Otherwise the student will be marked absent.
6. Students must carry his/her identity card(admit card if issued)for every examination they attend
7. Any electronic gadgets including cell phones, laptops, smart watches or smart wearable devices and programmable calculators are not allowed in the examination hall. Use of cell phone as calculator or clock is not allowed in the examination hall. All such electronic gadgets found inside the examination hall will be seized by the invigilator and handed over to the Administration. In the process if any damage or loss occurs to the seized electronic gadgets, the Institute AUTHORITY WILL NOT BE RESPONSIBLE FOR THE SAME. Use of non programmable (scientific) calculators generally allowed specifically not to be used.
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11. Details required in the front cover of the answer booklets must be completed. Roll number must be written at the prescribed places on the answer booklet and all supplementary sheets.
12. Answer should be written on both sides of a page Rough working may be done in any page of the answer booklet or in a supplement sheet obtained from the invigilator. Before submission of answer script ,the rough work may be crossed out neatly by drawing diagonal line across the page.
13. During the examination students should take permission from the invigilators to temporarily leave the examination hall for attending a nature's call.
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