

	<p>Pimpri Chinchwad Education Trust's  <b>Pimpri Chinchwad College of Engineering</b>          An Autonomous Institute          (Permanently affiliated to Savitribai Phule Pune University)</p>	<p>SET – I</p>
<p align="center"><b>End Term Examination</b></p>		

**First Year B. Tech. (Information Technology)**

**Principles of Programming Languages [ESC]**

**[BIT22B01]**

**Even Semester (2023-24)**

*Total No. of Questions-6*

*Total No. of Printed Pages-2*

*[Time: 2 Hr. 30 min.]*

*[Max. Marks: 80]*

<i>PRN</i>									
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**Instructions:**

MP: Verify that you have received a question paper with correct course, code, branch etc.

- All questions are compulsory.
- Assume suitable data wherever necessary.
- Neat labelled diagrams must be drawn wherever necessary.
- Figure to right indicates full marks.
- Use of a non-programmable calculator is allowed.

		Marks
<b>Q.1</b>	<b>Attempt following.</b>	<b>[7M]</b>
<b>A</b>	Explain Procedural oriented programming paradigm with example.	<b>[4M]</b>
<b>B</b>	Explain Functional programming paradigm with example.	<b>[3M]</b>
<b>Q.2</b>	<b>Attempt following.</b>	<b>[7M]</b>
<b>A</b>	Illustrate the concept of type conversion with example.	<b>[4M]</b>
<b>B</b>	Explain primitive data types with example.	<b>[3M]</b>
<b>Q.3</b>	<b>Attempt any two .</b>	<b>[20M]</b>
<b>A</b>	Make use of iterative statements and structure to write a program in C to collect the information of five students like student name, roll number and percentage and display the same information.	<b>[10M]</b>
<b>B</b>	Develop a program in C to generate Fibonacci series of n numbers. (Take n as user input)	<b>[10M]</b>
<b>C</b>	How will you explain unconditional branching statements with syntax and example?	<b>[10M]</b>
<b>Q.4</b>		<b>[27M]</b>
<b>A</b>	<b>Attempt any two .</b>	<b>[20M]</b>
	I) Illustrate function with syntax and example also explain function types.	<b>[10M]</b>



	II) Make a use of parameter passing call by value and call by reference to write a program in C to swap two numbers.	<b>[10M]</b>
	III) Illustrate four categories of functions with its syntax and example.	<b>[10M]</b>
<b>B</b>	<b>Attempt any one</b>	<b>[7M]</b>
	I) Explain semantics of call and return with stack and dynamic local variables.	<b>[7M]</b>
	II) Develop a program in C using function to check number is Armstrong or not by accepting number from user.	<b>[7M]</b>
<b>Q.5</b>	<b>Attempt following</b>	<b>[2M]</b>
<b>A</b>	Develop a program in functional programming language to print your name.	<b>[2M]</b>
<b>Q.6</b>		<b>[17M]</b>
<b>A</b>	<b>Attempt any one</b>	<b>[10M]</b>
	I) Elaborate basic concepts of object oriented programming language and explain class and object with example.	<b>[10M]</b>
	II) Elaborate constructor and its types with syntax and example.	<b>[10M]</b>
<b>B</b>	<b>Attempt any one</b>	<b>[7M]</b>
	I) Build a program in OOPs using class to display employee information like emp._id, emp._name and emp._Salary.	<b>[7M]</b>
	II) Create a program in OOPs using class and write function to return and display largest number out of two numbers.	<b>[7M]</b>

**\*\*\*\* End of Question Paper\*\*\*\***