			(a)	Lines	(b) F	unctions
	B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.		(c)	Instructions	(d) C	Codeword
	First Semester	3.	Wha	it are the entit	ies whos	se values can be
	Computer Science		char	iged called?		
			(a)	Constants	(b) V	/ariables
	Foundation Course – PROBLEM SOLVING TECHNIQUES		(c)	Modules	(d) T	Tokens
	(For those who joined in July 2023 onwards)		τ. σ			
Time: Three hours Maximum: 75 marks		4.	In Structure charts modules are described as			
			(a)	Circle	(b) T	Triangle Triangle
	PART A — $(10 \times 1 = 10 \text{ marks})$		(c)	Rectangle	(d) F	Elipse
	Answer ALL the questions.	5.	Mos	t common erro	r that c	occur in selection
	Choose the correct answer:		stru	cture is		
1.	Which of the following are characteristics of a		(a)	Compiler error		
	computer? (a) Versatile		(b)	Syntactical erro	r	
	(b) Accuracy		(c)	Segmentation fa	ult	
	(c) Reliability		(d)	Logical error		
	(d) All of the above		(4)	Dog.our orror		
				Pa	age 2 Co	ode No. : 20673 E
		. 10	۸ ۵۱		Ale in forms	ation
6.	Programmers use known as loops.	10.	•			
	(a) Repetition structure		(a) (b)	Complete filena	ma	
	(b) Conditional structure		(c)	Directory name	iie	
	(c) Goto		` '	Relative filenam	.e	
	(d) Unconditional structure		()			aarke)
7.	Classification of data by attributes is called:	A	PART B — $(5 \times 5 = 25 \text{ marks})$ Answer ALL questions by choosing either (a) or (b).			
	(a) Quantitative classification	A	Each answer should not exceed 250 words.			
	(b) Chronological classification	Real Park				
	(c) Qualitative classification	11.	(a)	Describe the var		s of computers.
	(d) Geographical classification		را.	What are transl	Or	ntornrator?
8.	Objects in a sequence that have the same type, is		(b)			
	called	12.	(a)	Define algorith good algorithm.		on the features of
	(a) Arrays (b) Operators (c) Functions (d) Stacks				\mathbf{Or}	
			(b)		Pseudoco	ode? Explain with
9.	Which of the following data flow diagram (DFD) symbols is represented by two parallel lines?			example. (ii) How it is	used as	a problem solving
	(a) Data-flow symbol			tool?		
	(b) External entity symbol	13.	(a)	When to use rel	ational an	d logical operators?
	(c) Internal entity symbol				\mathbf{Or}	
	(d) Data store symbol		(b)	How nested loop	works?	

A program is a sequence of _____ written in a

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[P.T.O.]

programming language.

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 (a) Define and differentiate numeric and character based data.

Or

- (b) What is an array? Why we need Arrays?
- 15. (a) Describe:
 - (i) Subprograms
 - (ii) Value and reference parameter.

Or

(b) Define function with example.

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions by choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) With a neat diagram explain the basic structure of a computer.

Or

(b) Elucidate the different types of programming language.

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17. (a) Illustrate different phases in program development cycle.

Or

- (b) What is Pseudo code? Explain.
- 18. (a) What are the selecting from several alternatives in selection structure? Explain.

Or

- (b) Explain Counter control loop.
- 19. (a) Write about two dimensional array?

Or

- (b) Mention some of the string operations and its uses.
- 20. (a) Why we need DFD? Mention its symbol and types.

Or

(b) Write about file and file creation procedure of a sequential file.

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